

# Google Hacking 101

Edited by Matt Payne, CISSP  
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<http://MattPayne.org/talks>

# Outline

- What's new in the world of Google?
- Google Bombing
- Schneier in **Secrets and Lies**
  - Attack at a distance
  - Emergent behavior
  - Automation
- Google as a mirror
- “Interesting Searches”
  - Software versions
  - Passwords, credit card numbers, ISOs
- CGI Scanning
  - Vulnerable software
- Defense against Google Hacking

# What's new at Google?

- Code.Google.com – a SourceForge.net competitor!
  - Get your project immediately!
    - No three day wait with a person looking at your project description
- Calendar.google.com
  - <http://code.google.com/apis/gdata/calendar.html>
- Google Search History
- Google Desktop! -- Multiple desktops!
  - There's a SDK! Third parties can make widgets – click OK to install (and trust) the widget
    - Users love to click ok!
- Trends.google.com

# More Google Goodness...

- Google Data APIs - Read and write data using a simple, standard protocol.
- Google Talk XMPP - Federate with Google Talk using the XMPP protocol.
- Blogger API - Create, read, update, and delete Blogger blog posts with Atom.
- Google Toolbar API - Create custom buttons for the Google Toolbar.
- Google Earth KML - Create and share content with the Google Earth client.
  - Track flights in the air!
    - [fboweb.com/antest/ge/intro.aspx?old=1](http://fboweb.com/antest/ge/intro.aspx?old=1)
    - Aka [tinyurl.com/krdzf](http://tinyurl.com/krdzf)
- Google Desktop SDK - Write UI, indexing, and query plug-ins for Google Desktop.
- Google Gadgets API - Write custom modules for Google's Personalized Homepage.
  - [Google.com/ig](http://Google.com/ig)
  - Many 3<sup>rd</sup> parties make you click ok to trust them...
- Google Maps API - Embed Google Maps in your own web pages.



# gmap-pedometer.com

**Gmaps Pedometer - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites

Address <http://www.gmap-pedometer.com/> Go Links

---

**Gmaps Pedometer**

Recording...  
Undo last point

☒ english ☐ metric

Total Distance: 0.59905395317622 miles  
Last Leg: 0.03817840491602 miles

Turn [off](#) mile markers  
Turn [on](#) calorie counter  
Elevation: off [small](#) [large](#)  
[Complete](#) there and back route

Saved  
URL for this route is: <http://www.gmap-pedometer.com/?r=57622>. [Add bookmark](#)

[Clear points and start over](#)  
[Print map](#)  
[Export as GPX](#) (external link)


[Message Board \(Mileposts\)](#) | [FAQ](#) | [About](#) | [Usage Instructions](#) | [Acknowledgements](#) | [Change History](#) |  
(All links open in a new window)

**NEW!**

2/4/06 **Bugfixes** Released changes today and

Jump to: United States NE Omaha zoom: 5 go

Map Satellite Hybrid



200 ft  
100 m

**Bowflex Free Weights**  
Increase Arm Strength, Build Muscle - Adjust from 5 to 52.5 Pounds!

**Map Your Running Routes**  
Find Their Distance, Find New Places to Run, Log Runs - Try Now

**Unique Products**  
Total Marathon and Tri Shop 100% customer service guaranteed.

**Running Books - Travel**  
"Fun on Foot in America's Cities" US travel guide for runners walkers

Imagery ©2005 DigitalGlobe - Terms of

Internet



# Google Bombing

!=

## Google Hacking

- [http://en.wikipedia.org/wiki/Google\\_bomb](http://en.wikipedia.org/wiki/Google_bomb)
- A **Google bomb** or **Google wash** is an attempt to influence the ranking of a given site in results returned by the Google search engine. Due to the way that Google's Page Rank algorithm works, a website will be ranked higher if the sites that link to that page all use consistent anchor text.

# So What Determines Page Relevance and Rating?



- Exact Phrase: are your keywords found as an exact phrase in any pages?
- Adjacency: how close are your keywords to each other?
- Weighting: how many times do the keywords appear in the page?
- PageRank/Links: How many links point to the page? How many links are actually in the page?

Equation: (Exact Phrase Hit)+(AdjacencyFactor)+(Weight) \* (PageRank/Links)



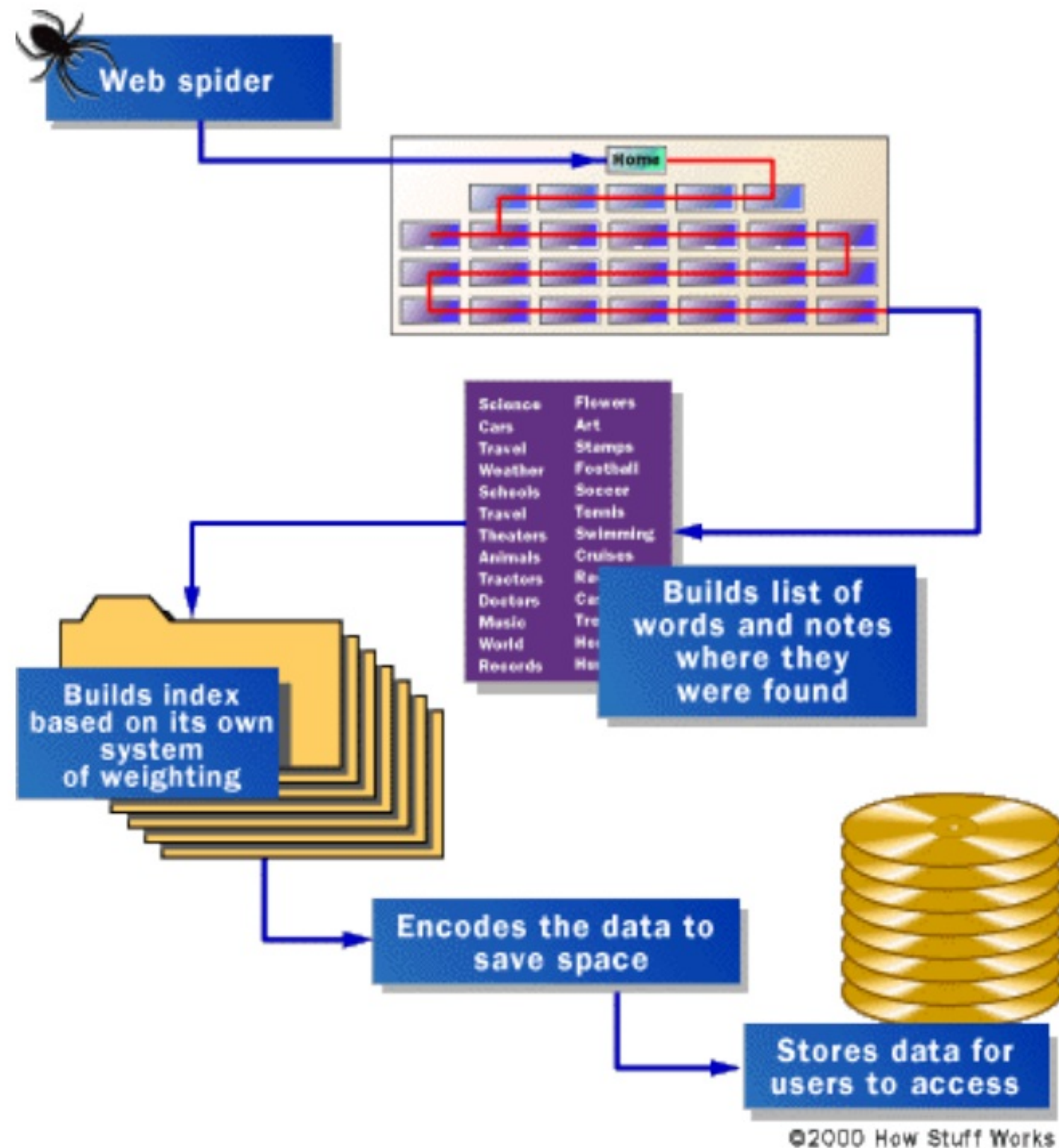
# Simply Put

- “Google allows for a great deal of target reconnaissance that results in little or no exposure for the attacker.” – Johnny Long
- Using Google as a “mirror” searches find:
  - Google searches for Credit Card and SS #s
  - Google searches for passwords
  - CGI (active content) scanning

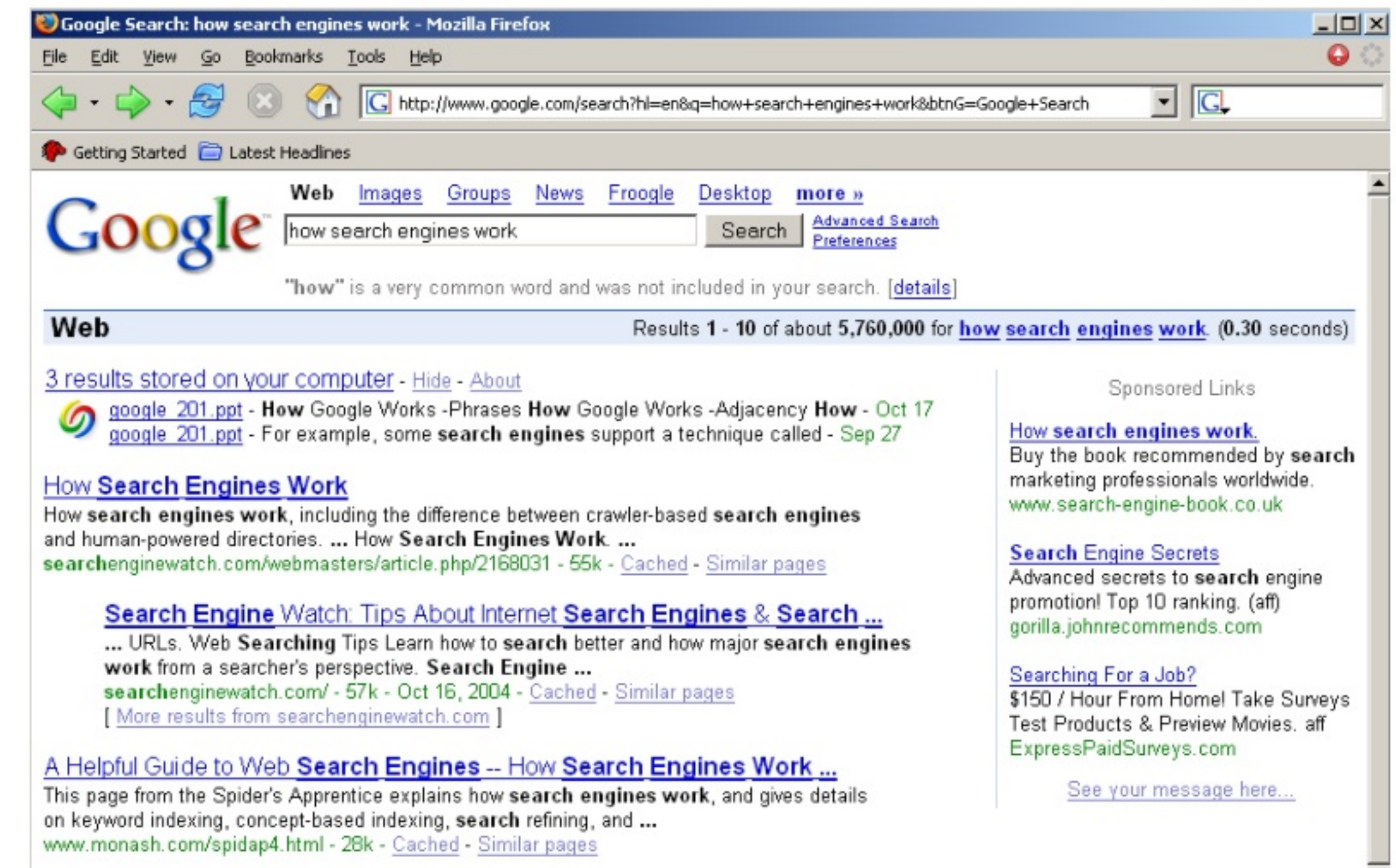


# Anatomy of a Search

## Server Side



## Client Side



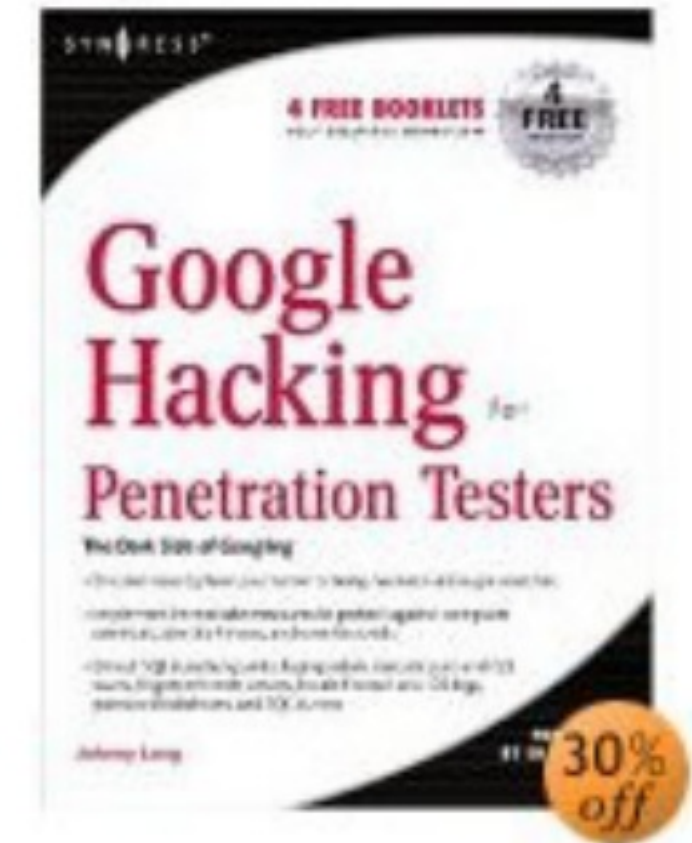
# How Google Finds Pages

- Are only connected web pages indexed?
- NO!
  - Opera submits every URL viewed to Google for later indexing....



# Johnny.ihackstuff.com

- Johnny Long
  - Wrote Google Hacking for Penetration Testers; ISBN 1931836361
  - Many free online articles.
    - Two PDFs cached at [MattPayne.org/talks/gh](http://MattPayne.org/talks/gh)
    - See the references slide
    - Or just use google



# Google and Zero Day Attacks

- Slashdot Headline: **Net Worm Uses Google to Spread:**
  - **Posted by michael on Tue Dec 21, '04 06:15 PM from the web-service-takes-on-new-meaning dept.**  
*troop23 writes "A web worm that identifies potential victims by searching Google is spreading among online bulletin boards using a vulnerable version of the program phpBB, security professionals said on Tuesday. Almost 40,000 sites may have already been infected. In an odd twist if you use Microsoft's Search engine to scan for the phrase 'NeverEverNoSanity'-- part of the defacement text that the Santy worm uses to replace files on infected Web sites--returns nearly 39,000 hits."* Reader pmf sent in a few more information links: F-Secure weblog and Bugtraq posting. **Update: 12/22 03:34 GMT by T:** ZephyrXero links to this news.com article that says Google is now squashing requests generated by the worm.



# Local Example

- Monday 14 February, 2005  
@10:11am  
Update: Now it sounds like everyone was hit with an exploit on awstats which took out quite a few bloggers and other sites. ==> Actually, phorum got hit with it too!

After running my server something.net for quite awhile on 'borrowed time', it eventually got hacked into - just this weekend. The "Simiens Crew" took credit to a webpage defacement, and by doing some googling... they've hit quite a few websites even just this last weekend! My best guess so far was an attack on one of my many 3rd-party PHP-run services that I have not taken the time to watch and patch for security announcements. Could have been gallery, phorum, webcalendar, icalendar, etc... I'll do some investigating and hopefully find out. I may have been lucky though, it sounds like these were just defacements and not all-out attacks, other victims have not reported any data loss at least. I can respect that. What I *can't* respect though is the many defacements they've put up with "FrontPage" as the HTML generator!



# Enough BS, How Do I Get Results?

- Pick your keywords carefully & be specific
- Do NOT exceed 10 keywords
- Use Boolean modifiers
- Use advanced operators
- Google ignores some words\*:

a, about, an, and, are, as, at, be, by, from, how, i, in, is, it, of, on, or, that, the, this, to, we, what, when, where, which, with

\*From: Google 201, Advanced Googology - Patrick Crispen, CSU





# Google's Boolean Modifiers

- AND is always implied.
- OR: Escobar (Narcotics OR Cocaine)
- "-" = NOT: Escobar -Pablo
- "+" = MUST: Escobar +Roberto
- Use quotes for exact phrase matching:
  - "nobody puts baby in a corner"



# Wildcards

- Google supports word wildcards but NOT stemming.
  - "It's the end of the \* as we know it" works.
  - but "American Psycho\*" won't get you decent results on American Psychology or American Psychophysics.





# Advanced Searching

googleguide.com and...

Advanced Search Page:

http://

search

The screenshot shows the Google Advanced Search interface within a Mozilla Firefox browser window. The browser's address bar displays the URL `http://www.google.com/advanced_search`. The page features the Google logo and a title bar for "Advanced Search".

The main search section includes a "Find results" area with four radio button options: "with all of the words", "with the exact phrase", "with at least one of the words", and "without the words". Each option is followed by a text input field. To the right of these fields is a dropdown menu set to "10 results" and a "Google Search" button.

Below the main search section, there are several filter categories, each with a "Only" checkbox and a description:

- Language:** "Return pages written in" followed by a dropdown menu set to "any language".
- File Format:** "Return results of the file format" followed by a dropdown menu set to "any format".
- Date:** "Return web pages updated in the" followed by a dropdown menu set to "anytime".
- Numeric Range:** "Return web pages containing numbers between" followed by two input fields for "and".
- Occurrences:** "Return results where my terms occur" followed by a dropdown menu set to "anywhere in the page".
- Domain:** "Return results from the site or domain" followed by an input field and a link to "More info" with the example "e.g. google.com, .org".

The "SafeSearch" section has two radio buttons: "No filtering" (selected) and "Filter using SafeSearch".

Below the filters, there is a "Froogle Product Search (BETA)" section with a "Products" label, a text input field, and a "Search" button. A note below the input field says "To browse for products, start at the Froogle home page".

The "Page-Specific Search" section includes two options:

- Similar:** "Find pages similar to the page" followed by an input field and a "Search" button. An example "e.g. www.google.com/help.html" is provided below the input field.
- Links:** "Find pages that link to the page" followed by an input field and a "Search" button.

# Advanced Operators

- cache:
- define:
- info:
- intext:
- intitle:
- inurl:
- link:
- related:
- stocks:
- filetype:
- numrange 1973..2005
- source:
- phonebook:

DEMO:

on-2-13-1973..2004

visa

4356000000000000..435699999999  
9999





# Review: Basic Search

- Use the plus sign (+) to force a search for an overly common word. Use the minus sign (-) to exclude a term from a search. No space follows these signs.
- To search for a phrase, supply the phrase surrounded by double quotes (" ").
- A period (.) serves as a single-character wildcard.
- An asterisk (\*) represents any word—not the completion of a word, as is traditionally used.
- Source: **<http://tinyurl.com/dnhc3>**

# Advanced Operators

- Google advanced operators help refine searches. Advanced operators use a syntax such as the following:
- *operator.search\_term*
  - Notice that there's no space between the operator, the colon, and the search term.
- The **site:** operator instructs Google to restrict a search to a specific web site or domain. The web site to search must be supplied after the colon.
- The **link:** operator instructs Google to search within hyperlinks for a search term.
- The **cache:** operator displays the version of a web page as it appeared when Google crawled the site. The URL of the site must be supplied after the colon.
  - Turn off images and you can look at pages without being logged on the server! Google as a mirror.



# Other parts

- Google searches not only the content of a page, but the title and URL as well.
- The **intitle:** operator instructs Google to search for a term within the title of a document.
- The **inurl:** operator instructs Google to search only within the URL (web address) of a document. The search term must follow the colon.
- To find *every* web page Google has crawled for a specific site, use the **site:** operator.

• Source: <http://tinyurl.com/dnhc3>

# What Can Google Search?

- The **filetype:** operator instructs Google to search only within the text of a particular type of file. The file type to search must be supplied after the colon. Don't include a period before the file extension.
  - Everything listed at <http://filext.com/> claims Johnny. Can also ,e.g., say filetype:phps to only search .phps files.
    - filetype:phps mysql\_connect
- Adobe Portable Document Format (pdf)
- Adobe PostScript (ps)
- Lotus 1-2-3 (wk1, wk2, wk3, wk4, wk5, wki, wks, wku)
- MacWrite (mw)
- Microsoft Excel (xls)
- Microsoft PowerPoint (ppt)
- Microsoft Word (doc)
- Microsoft Works (wks, wps, wdb)
- Microsoft Write (wri)
- Rich Text Format (rtf)
- Shockwave Flash (swf)
- Text (ans, txt)
- And many more....



# Directory Listings

- **Directory Listings**
  - **Show server version information**
    - **Useful for an attacker**
  - `intitle:index.of server.at`
  - `intitle:index.of server.at site:aol.com`
- **Finding Directory Listings**
  - `intitle:index.of "parent directory"`
  - `intitle:index.of name size`
- **Displaying variables**
  - “Standard” demo and debugging program
  - “`HTTP_USER_AGENT=Googlebot`”
  - Frequently an avenue for remote code execution
    - `http://somebox.someU.edu/~user/demo.cgi?cmd=`cat /etc/passwd``

# Default Pages

- Default Pages are another way to find specific versions of server software....

## **Apache Server Version    Query**

Apache 1.3.0–1.3.9	<code>Intitle:Test.Page.for.Apache It.worked! this.web.site!</code>
Apache 1.3.11–1.3.26	<code>Intitle:Test.Page.for.Apache seeing.this.instead</code>
Apache 2.0	<code>Intitle:Simple.page.for.Apache Apache.Hook.Functions</code>
Apache SSL/TLS	<code>Intitle:test.page "Hey, it worked !" "SSL/TLS-aware"</code>
Many IIS servers	<code>intitle:welcome.to intitle:internet IIS</code>
Unknown IIS server	<code>intitle:"Under construction" "does not currently have"</code>
IIS 4.0	<code>intitle:welcome.to.IIS.4.0</code>
IIS 4.0	<code>allintitle:Welcome to Windows NT 4.0 Option Pack</code>
IIS 4.0	<code>allintitle:Welcome to Internet Information Server</code>
IIS 5.0	<code>allintitle:Welcome to Windows 2000 Internet Services</code>
IIS 6.0	<code>allintitle:Welcome to Windows XP Server Internet Services</code>
Many Netscape servers	<code>allintitle:Netscape Enterprise Server Home Page</code>
Unknown Netscape server	<code>allintitle:Netscape FastTrack Server Home Page</code>



# CGI Scanner

- Google can be used as a CGI scanner. The index.of or inurl searches are good tools to find vulnerable targets. For example, a Google search for this:
- `allinurl:/random_banner/index.cgi`
  - Hurray! There are only three...
- the broken random\_banner program to cough up any file on that web server, including the password file...

# CGI & Other Server Side Programs

- Database errors
- Login portals
  - Coldfusion
  - Remote desktop
  - Dotproject
  - Citrix Metaframe
  - MS Outlook web access



# Johnny's Disclaimer

- “Note that actual exploitation of a found vulnerability crosses the ethical line, and is not considered mere web searching.”

# Security Advisory + Source = Google Hack

- Security Advisories and application patches for web application explain the newly discovered vulnerability
- Analysis of the source code of the vulnerable application yields a search for un-patched applications
- Sometimes this can be very simple; e.g.:
  - “Powered by CuteNews v1.3.1”



# Automation!

- CGIs and other active content can be located in several places on a server.
- Many queries need to be used to find a vulnerability.
- There are two ways to automate Google searches:
  - Plain old web robots
  - The Google API: <http://www.google.com/apis/>

# Terms of Service

- [http://www.google.com/terms\\_of\\_service.html](http://www.google.com/terms_of_service.html)
- "You may not send automated queries of any sort to Google's system without express permission in advance from Google. Note that 'sending automated queries' includes, among other things:
  - using any software which sends queries to Google to determine how a web site or web page 'ranks' on Google for various queries;
  - 'meta-searching' Google; and
  - performing 'offline' searches on Google."



# Google API

- The Google API is the blessed way of automating Google interaction.
- When you use the Google API you include your license string

# Gooscan

- “The gooscan tool, written by j0hnny, automates CGI scanning with Google, and many other functions.
- Gooscan is a UNIX (Linux/BSD/Mac OS X) tool that automates queries against Google search appliances (which are not governed by the same automation restrictions as their web-based brethren). For the security professional, gooscan serves as a front end for an external server assessment and aids in the information-gathering phase of a vulnerability assessment. For the web server administrator, gooscan helps discover what the web community may already know about a site thanks to Google's search appliance.
- For more information about this tool, including the ethical implications of its use, see <http://johnny.ihackstuff.com>.”



# Google Search Appliance?

- It sounds like a good idea to put a search appliance in the enterprise.
- Then someone has their source code searched.
  - `/* TODO: Fix the major security hole here */`

# Googledorks?

- <http://johnny.ihackstuff.com/googledorks>
- The term "googledork" was coined by the author [Johnny Long] and originally meant "An inept or foolish person as revealed by Google."
- After a great deal of media attention, the term came to describe those who "troll the Internet for confidential goods."
- Either description is fine, really.
- What matters is that the term *googledork* conveys the concept that sensitive stuff is on the web, and Google can help you find it. The official googledorks page lists many different examples of unbelievable things that have been dug up through Google by the maintainer of the page, Johnny Long.
  - **<http://tinyurl.com/2ywy>**
- Each listing shows the Google search required to find the information, along with a description of why the data found on each page is so interesting.



# GooPot

- According to <http://www.techtarget.com>, "A honey pot is a computer system on the Internet that is expressly set up to attract and 'trap' people who attempt to penetrate other people's computer systems."
- For example, build a page that matches the query:
  - `inurl:admin inurl:userlist`
- Then examine the referrer variable to figure out how the person found the page. This information can help protect normal sites.
- <http://ghh.sourceforge.net/>

# Protecting Yourself from Google Hackers

- **Keep your sensitive data off the web!**  
Even if you think you're only putting your data on a web site temporarily, there's a good chance that you'll either forget about it, or that a web crawler might find it.  
Consider more secure ways of sharing sensitive data, such as SSH/SCP or encrypted email.



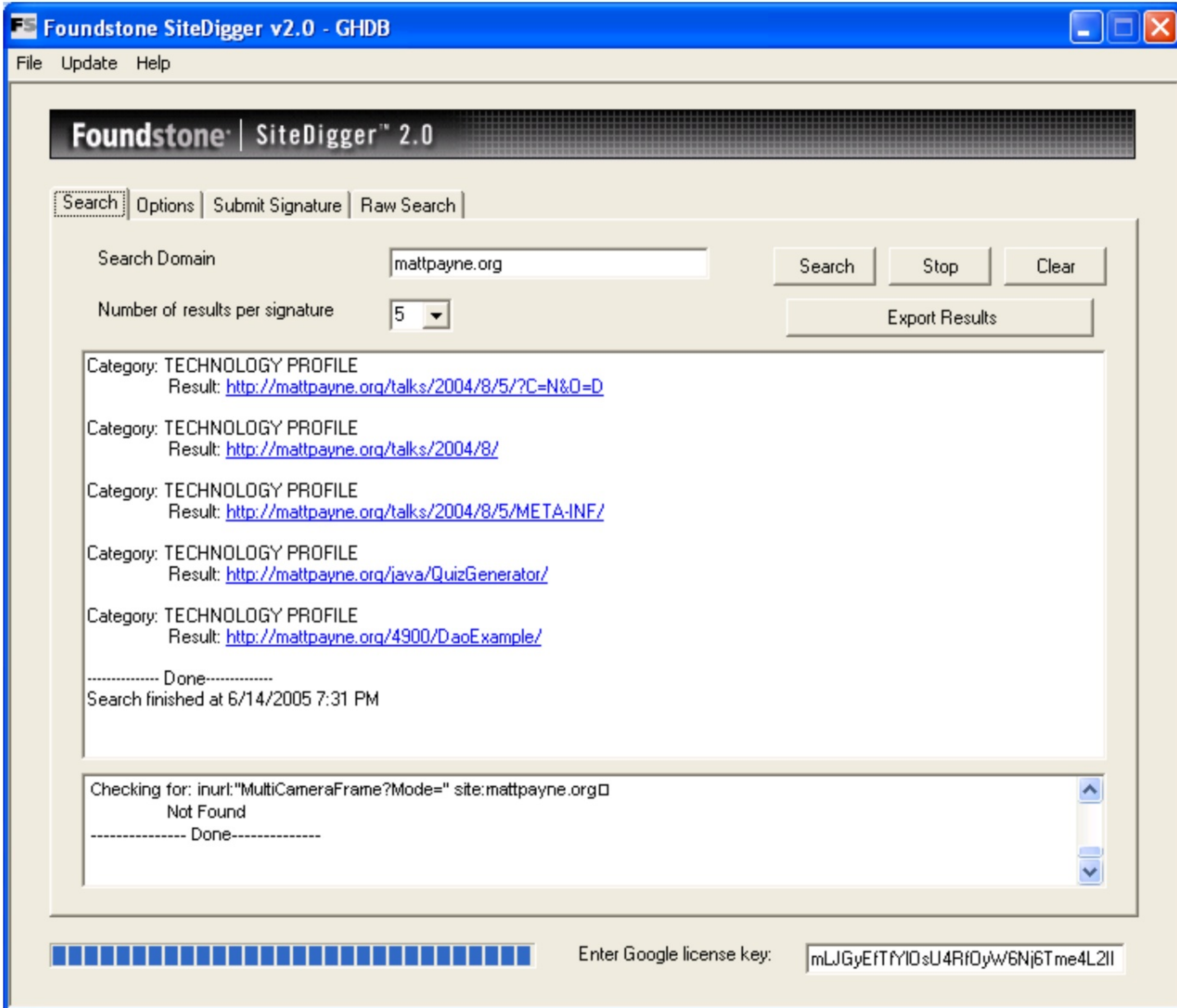
# Protecting Yourself...

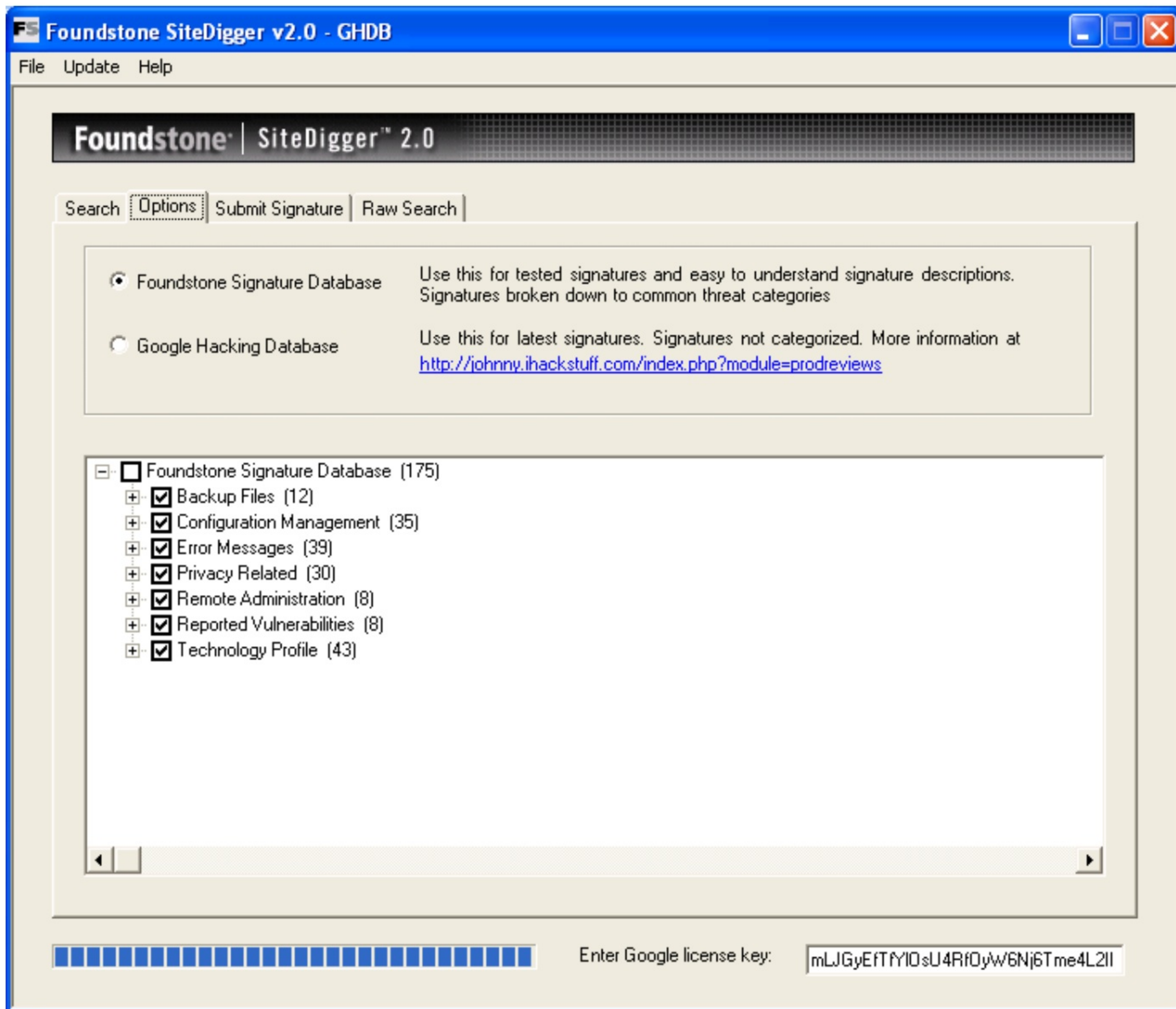
- **Googledork!** Use the techniques outlined in this article (and the full Google Hacker's Guide) to check your site for sensitive information or vulnerable files.
- SiteDigger from FoundStone automates this.
  - Uses the Google API so...
    - Only 1000 searches on Google per day
  - Free beer!

# SiteDigger 2.0

- **<http://tinyurl.com/28aeh>**
- The tool requires Google web services API license key.
  - Your license key provides you access to the Google Web APIs service and entitles you to 1,000 queries per day.
- **System Requirements**  
Windows .NET Framework (can be installed using Windows Update)









FS Foundstone SiteDigger v2.0 - GHDB

File Update Help

**Foundstone | SiteDigger™ 2.0**

Search Options **Submit Signature** Raw Search

Category Backup Files

Signature "#mysql dump" filetype:sql

Short Description Reveals mySQL database dumps

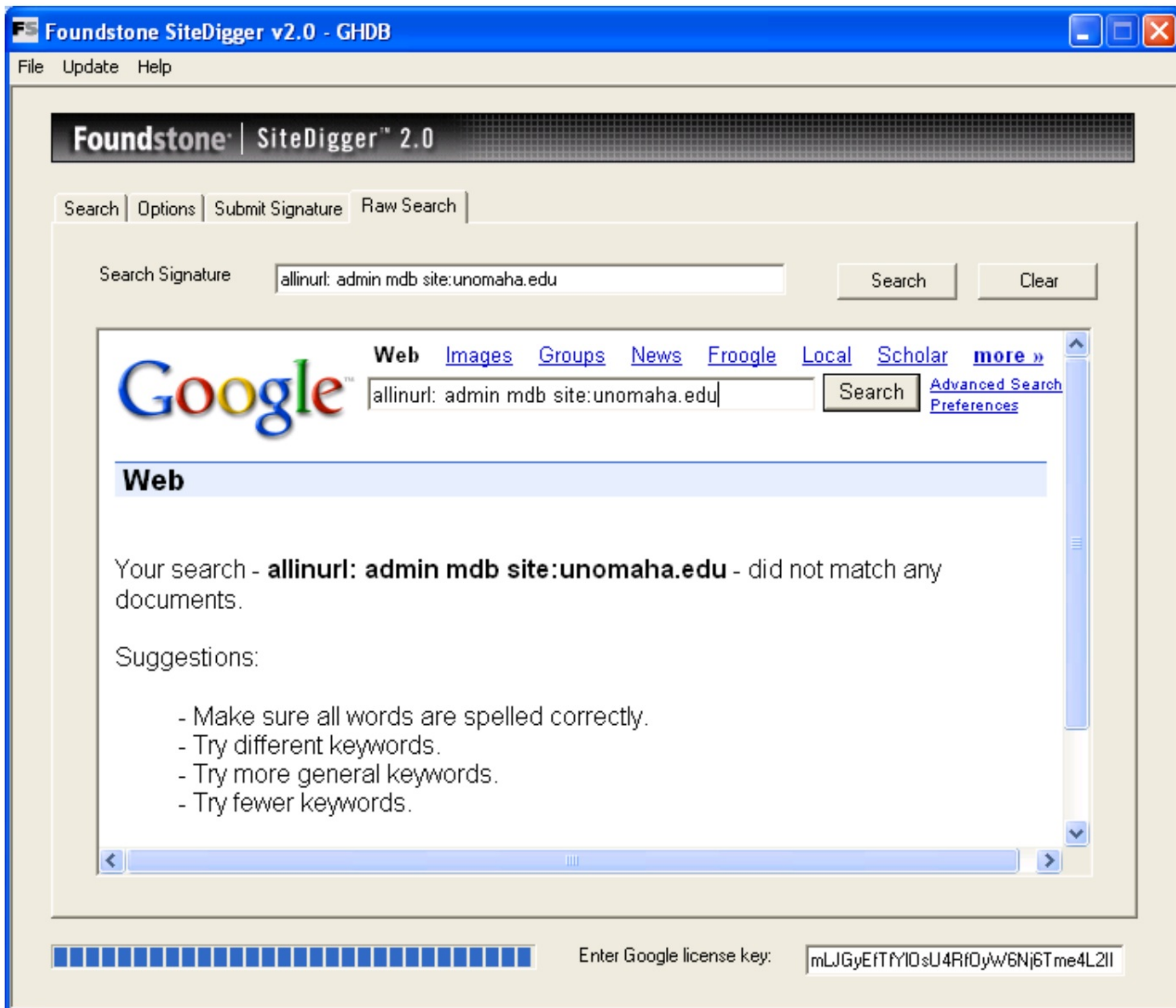
Long Description This reveals mySQL database dumps. These database dumps list the structure and content of databases, which can reveal many different types of sensitive information.

Comments Insert Comments / Credits

Submit Signature Clear

Enter Google license key: mLJGyEfTYIOsU4RfOyW6Nj6Tme4L2II

Куплено  
благодаря  
Skladchik.com





# Protecting yourself...

- **Consider removing your site from Google's index.**

<http://www.google.com/remove.html>

# Robots.txt

- **Use a robots.txt file.** Web crawlers are supposed to follow the robots exclusion standard. This standard outlines the procedure for "politely requesting" that web crawlers ignore all or part of your web site. This file is only a suggestion. The major search engine's crawlers honor this file and its contents. For examples and suggestions for using a robots.txt file, see <http://www.robotstxt.org>.



# Example Robots.txt

- User-agent: \*
- Disallow: /images/
- Disallow: /stats/
- Disallow: /logs/
- Disallow: /admin/
- Disallow: /comment/
- User-agent: Googlebot
- Allow:
- User-agent: BecomeBot
- Disallow:
- Disallow: /
- Disallow: \*
- User-agent: MSNBot
- Disallow:
- Disallow: /
- Disallow: \*
- By default tells others to not scan specific paths
- Allows Google to scan
- Tells BecomeBot and MSNBot to go away entirely.
- Please the robots.txt in the root of your HTML documents directory.
- See also
- Removing Your Materials from Google  
**How to remove your content from Google's various web properties.**
- <http://hacks.oreilly.com/pub/h/220>
- Robots.txt generator  
**<http://tinyurl.com/7pc4k>**

# CAPTCHA

- Completely Automated Public Turing Test to Tell Computers and Humans Apart

NSF

- <http://www.captcha.net/>
- <http://en.wikipedia.org/wiki/Captcha>



# Google Extras...

- Translation and Language options - over 100 to choose from:  
[http://www.google.com/language\\_tools](http://www.google.com/language_tools)
- Stock Quotes - enter stocks:, example: stocks:GOOG
- Newsgroups - <http://groups.google.com>
- Calculator - "1024 minus 768" or "12 to the 10 power"
- Froogle - <http://froogle.google.com>
- Images - <http://images.google.com>
- Spell Checking - just type it in: "convienence"
- Blogger - <http://www.blogger.com/start>

Extras can be found at <http://www.google.com/help/features.html>

# Sets from Google Labs

- <http://labs.google.com/sets>
- Automatically create sets of items from a few examples.
- When you're tired of relating keywords yourself, let Google do it for you....



# References

<http://bss.sfsu.edu/bsscomputing/training/ont>

[http://www.googleguide.com/advanced\\_operators.html](http://www.googleguide.com/advanced_operators.html)

Google Hacking Mini Guide by Johnny Long

<http://www.informit.com/articles/article.asp?p=17>

Search Engine Watch:

<http://searchenginewatch.com>

# References

1. Google Hacks: 100 Industrial-Strength Tips & Tools
2. by Tara Calishain, Rael Domfest
3. Protect yourself from Google hacking:  
**<http://tinyurl.com/8q3fg>**
4. Johnny I Hack Stuff: <http://johnny.ihackstuff.com>
5. Google:<http://www.google.com>
6. <http://www.i-hacked.com/content/view/23/42/>
7. HowStuffWorks:
8. <http://computer.howstuffworks.com/search-engine1.htm>



# Interesting Searches...

- Source <http://www.i-hacked.com/content/view/23/42/>
- intitle:"Index of" passwords modified
- allinurl:auth\_user\_file.txt
- "access denied for user" "using password"
- "A syntax error has occurred" filetype:ihtml
- allinurl: admin mdb
- "ORA-00921: unexpected end of SQL command"
- inurl:passlist.txt
- "Index of /backup"
- "Chatologica MetaSearch" "stack tracking:"

# Credit Cards

- Number Ranges to find Credit Card Numbers
  - Amex Numbers:  
3000000000000000..3999999999999999
  - MC Numbers:  
5178000000000000..5178999999999999
  - visa 4356000000000000..4356999999999999

# Listings of what you want

- change the word after the parent directory to what you want
- "parent directory " **DVDRip** -xxx -html -htm -php -shtml  
-opendivx -md5 -md5sums
- "parent directory " **Xvid** -xxx -html -htm -php -shtml  
-opendivx -md5 -md5sums
- "parent directory " **Gamez** -xxx -html -htm -php -shtml  
-opendivx -md5 -md5sums
- "parent directory " **MP3** -xxx -html -htm -php -shtml  
-opendivx -md5 -md5sums
- "parent directory " **Name of Singer or album**" -xxx  
-html -htm -php -shtml -opendivx -md5 -md5sums



# Music

- You only need add the name of the song/artist/singer.
- Example: `intitle:index.of mp3 jackson`

# CD Images

- `inurl:microsoft filetype:iso`
- You can change the string to whatever you want, ex. Microsoft to Adobe, .iso to .zip etc...

# Passwords

- "# -FrontPage-" inurl:service.pwd  
FrontPage passwords.. very nice clean search results listing !!

"AutoCreate=TRUE password=\*"

This searches the password for "Website Access Analyzer", a Japanese software that creates webstatistics. For those who can read Japanese, check out the author's site at:

<http://www.coara.or.jp/~passy/>



# Passwords in the URL

- "http://\*:\*@www" domainname  
This is a query to get inline passwords from search engines (not just Google), you must type in the query followed with the domain name without the .com or .net

"http://\*:\*@www" gamespy or http://\*:\*@www"gamespy

Another way is by just typing  
"http://bob:bob@www"

# IRC Passwords

- "sets mode: +k"  
This search reveals channel keys (passwords) on IRC as revealed from IRC chat logs.
- eggdrop filetype:user user  
These are eggdrop config files. Avoiding a full-blown discussion about eggdrops and IRC bots, suffice it to say that this file contains usernames and passwords for IRC users.

# Access Database Passwords

- allinurl: admin mdb

Not all of these pages are administrator's access databases containing usernames, passwords and other sensitive information, but many are!



# DCForum Passwords

- `allinurl:auth_user_file.txt`  
DCForum's password file. This file gives a list of (crackable) passwords, usernames and email addresses for DCForum and for DCShop (a shopping cart program!!!). Some lists are bigger than others, all are fun, and all belong to googledorks. =)

# MySQL Passwords

- intitle:"Index of" config.php
- This search brings up sites with "config.php" files. To skip the technical discussion, this configuration file contains both a username and a password for an SQL database. Most sites with forums run a PHP message base. This file gives you the keys to that forum, including FULL ADMIN access to the database.

# The ETC Directory

- `intitle:index.of.etc`

This search gets you access to the etc directory, where many, many, many types of password files can be found. This link is not as reliable, but crawling etc directories can be really fun!



# Passwords in backup files

- filetype:bak  
inurl:"htaccess|passwd|shadow|htusers"  
This will search for backup files (\*.bak) created by some editors or even by the administrator himself (before activating a new version).  
Every attacker knows that changing the extension of a file on a web server can have ugly consequences.

# Serial Numbers

- Let's pretend you need a serial number for Windows XP Pro.
- In the Google search bar type in just like this - "Windows XP Professional" 94FBR
- the key is the 94FBR code.. it was included with many MS Office registration codes so this will help you dramatically reduce the amount of 'fake' sites (usually pornography) that trick you.
- or if you want to find the serial for WinZip 8.1 - "WinZip 8.1" 94FBR