



Search History Privacy Through Obfuscation: Introducing the Haystack Project

Toorcamp 2009

Obligatory Biography

- From Tempe, AZ USA: Home of UAT, ASU, First Solar, and Four Peaks Brewery
 - Tempe is NOT part of Phoenix, we have our own downtown and everything!
- Built a Duck Hunt arcade box for Shmooscon in 2007
- Spoke at ABLEconf08 on Linux gaming in portable devices
- None of this is related to anything
 - Stop taking notes, it won't be on the exam; Its not even on Wikipedia!

What

- Haystack Project is an initiative to create tools that will help obfuscate your search history
 - Web-based search tool
 - Browser (Firefox) plugin
- The core app (HayProj) behind this generates search terms that look like what you'd type in yourself, like hiding a needle in a haystack
- An alternative to the trust-dependent approach of searching by proxy (e.g. blackboxsearch.com)

!What

- MIT's Haystack Project
 - PROTIP: Google potential names for open source projects before buying domain names
 - Our developers went to DeVry or are in internet high school, oddly enough—don't tell them I told that to everyone. ;)
- Tor, or a replacement for Tor
- A search engine
- Something BILLY MAYS-guaranteed to hide your tracks
- Backdoor'd

Why

- Privacy is Serious Business
- I got bored when I was laid off last year
- Desire to contribute to the open source community
- Coding in pure JavaScript == character building?
- Because it can be done, or at least worth trying to do

FORENSICS BINGO!

FORENSICS BINGO!

How

- Whitepaper explains everything, but its boring despite the blurry graphs and Björk references

DEMO

When

- Web Search is LIVE!
 - In English only, for now
 - Using Google only, for now
 - Using Google Hot Trends only, for now
- Firefox plugin
 - Limited alpha release around late July, maybe, right around Defcon
- Dillo plugin
 - When Tuna decides to write it WINK WINK

WANT!

- DEVELOPERS DEVELOPERS DEVELOPERS
 - Giant list of TODO's at <http://www.haystackproject.org/developers.htm>
 - Contribute code, work on interesting problems
 - Contribute lots of code and get an @haystackproject.org email address
 - Impress your friends
 - Impress the [ladies | dudes]
- L10N and Internationalization
 - Translation of site content
 - Internationalization of term generation sources

Obligatory Credits

- Martin Eberhard, for the initial core idea (and for making electric cars look sexy)
- Christopher Blizzard (@chrisblizzard) of the Mozilla Foundation, for letting me badger him at SCaLE with my n00b extension developer questions
- Will (@willbradley) for lending his regex skillz
- Various others for ideas on HayProj's design
- Toorcamp (@toorcamp) for accepting my talk after CanSecWest gave me the cold shoulder

?