Using Social Media and the Internet to Monitor Sex Offenders

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Marnie Dollinger, Sr. Policy Advisor, SMART
Introductions
Outline for the Session

• Why Social Media
• Ethical Considerations
• Sex Offenders & the Internet
• Online vs Digital Evidence
• Anonymity

• Advanced Searches
• Social Media Tools
• Specific Sites
• Evidence Preservation @ the Server
Why Social Media Monitoring?

• Reasons why social media monitoring may be important:
  – Supervision issues
  – Treatment compliance issues
  – Registration issues
  – Recidivism or re-offense
Pokémon Go is all the rage but...

<table>
<thead>
<tr>
<th>NAME(S)</th>
<th>CERDA, NATHAN (PRIMARY)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>CERDA, NATHAN GARCIA</td>
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**CERDA, NATHAN**

- SID: 07141696
- RISK LEVEL: MODERATE
- ENDING REGISTRATION DATE (PROJECTED): LIFETIME
- VERIFICATION REQUIREMENT: ANNUALLY
- SEX: MALE
- RACE: WHITE
- ETHNICITY: HISPANIC
- HEIGHT: 5'9"
- WEIGHT: 231 LBS
- HAIR COLOR: BLACK
- EYE COLOR: BROWN
- SHOE SIZE: 09.0
- SHOE WIDTH: UNKNOWN

Photo Reported: 02/10/2014

**Nathan Cerda**

4 hrs • 🛃

Warning...... All u Pokemon go people tomorrow me and some friends are taking out our modified paintball guns and we gonna Purge... And I know you stupid people are walking all over the place looking at the phone trying to find these Pokemon. tomorrow we are going to be everywhere so be aware of all your surroundings.. We going to have some fun tomorrow f***it even my sister is going to purge tomorrow lol lol hahahahaha so your a better not be walking
Discretion is advised…
What is the Internet?

“I must confess that I’ve never trusted the Web. I’ve always seen it as a coward’s tool. Where does it live? How do you hold it personally responsible? Can you put a distributed network of fiber-optic cable ‘on notice’? And is it male or female? In other words, can I challenge it to a fight?”

Stephen Colbert
# Law Enforcement Use of Social Media

## Agencies

- 52% of LE agencies don’t have a formal process for using social media
- 67% indicate it is valuable in anticipating crimes
- 40% use it to monitor events
- 34% use it to notify the public of crimes & emergencies
- 29% use it to solicit tips
- 27% use it to communicate traffic issues
- 56% of command officers support the use of social media for investigations

## Investigators

- 8 out of 10 LEO (81%) use social media in their work
- 63% for investigations
- 25% use it daily
- 73% believe social media can help solve cases more quickly
- 77% of LEO are “very comfortable” using social media for investigations
- Only 19% learned their skills in a training session

~Lexis Nexis, 2014
Ethical Considerations
Ethical Considerations: Attorneys

• Contact with Defendants/Adverse Persons
  – Rule 4.2 (Communication w/ Represented Person)
  – Rule 4.3 (Dealing w/ Unrepresented Person)

• Prohibitions on Fraud, Dishonesty, Deceit, or Misrepresentation
  – Rule 1.2 (Scope & Allocation)
  – Rule 4.1 (Truthfulness)
  – Rule 4.4 (Respect for Third-Party Rights)
  – Rule 8.4 (Misconduct)

• Special Responsibilities of a Prosecutor
Ethical Considerations in Undercover Online Investigations
(Part I of II)

By Lori McPherson

Cases involving child pornography or the online solicitation of minors for sexual contact constitute a rapidly-growing area in law enforcement and prosecution. From investigation to trial, the law is racing to catch up with technology. Largely overlooked thus far are the ethical considerations for local and federal prosecutors involved in undercover online investigations.

A prosecutor may have varying degrees of involvement with law enforcement in the investigation of these cases. Some may have no interaction with the police until the investigation is complete, while others might be very involved from the outset, giving direction to police who pose in an undercover capacity online. The temptation to be actively involved in investigations is great, especially for younger prosecutors who are often technologically savvy. However, the duty of a lawyer generally, and a prosecutor more specifically, is different from that of law enforcement and the public at large.

As practitioners are all well aware, attorneys are contact with a represented party, not just a represented person. As in all ethical matters, the practitioner is well-advised to be thoroughly familiar with their local applicable rules of professional conduct for the exact ethical requirements under which they practice.

Greenacre Committee v. Simek involved a defense attorney (Simek) who represented an individual named Davis in a drug conspiracy case. Another individual, Harper, was charged with the attempted murder of a witness in Davis’s drug conspiracy case. Simek had been advised that his client, Davis, was about to be charged in the same attempted murder case as Harper, at least in part because Harper had “rolled” and implicated Davis in the crime. Simek then interviewed Harper about the attempted murder, after being advised that Harper had court-appointed counsel.

The Second Circuit in Simek gave a very narrow interpretation of the ethical rule, holding that because Davis was not “officially” a codefendant in the attempted murder case at the time of the interview, it was permissible under the rules of professional conduct. Two subsequent cases are useful to demonstrate the strict interpretation that has accompanied this
Ethical Considerations: Law Enforcement

• Agency Undercover (UC) Guidance/Rules

• Online Reconnaissance without Notifying/Contacting Target
  – Publicly Available Information
  – No Reasonable Expectation of Privacy
  – but: LinkedIn, auto notifications on access

• “Friending” a Target
  – Follow UC Guidance/Rules
  – “Misplaced Trust Doctrine”
Technology & Offenders
Technology Use by Offenders

- Unsupervised environment
- Instant gratification
- Easy accessibility
- Security and privacy
- Easy sharing
- Perceived anonymity
- Like minded associates
Sex Offenders Online

- Dowdell, Burgess, and Flores (2011) compared the online activities of students to convicted sex offenders
  - 466 offenders, 113 were Internet offenders (child pornography offenders and travelers)
  - 236 child molesters, 35 rapists, and 27 miscellaneous
  - Of the child molesters 60 were Internet offenders
  - 29% of the Internet offenders and 13% of child molesters frequently visited teen chatrooms

- Internet offenders, 29% honestly identified themselves
  - 59% provided a false name or age
  - 12% had mixed truthful and false personas

- Child molesters, 63% provided truthful identity information
  - 37% falsely stated their age

- Child molester / Internet offenders, 49% were truthful
Initiating Sex Chat

- All groups preferred chatting with teenage girls
- They also preferred MySpace but Facebook was used by the kids more often

- 63% of Internet offenders initiated sex chat in the first chat session
- 20% waited till sessions 2-6
- 17% took more than 7 sessions
## Classification of Evidence

### Physical vs. Electronic

What is a photo?
- A picture made using a camera, in which an image is focused onto film or other light-sensitive material and then made visible and permanent by chemical treatment, or stored digitally.

### Electronically Stored Information (ESI)

- Any information created, stored, or utilized with digital technology

### Evidence

- No country has a stipulation of what constitutes electronic evidence

### Digital vs. Online

Although similar: both are ESI, both are easily manipulated or destroyed, both contain metadata

Different because of the dissimilar manner in which they are collected
- Historically: digital evidence was collected from a “dead” machine
- Online is from the “live” Internet
Online Evidence

• A snapshot of ESI on a particular date and time
• It is temporary
• Can be altered from anywhere
• A website can change minutes after it was captured
• So can a social media site
• Some are designed to disappear
• Much like a crime scene, which can only be documented at the time it is searched but can’t be preserved indefinitely
Collecting Entire Websites

- Not easy because every website has Active content
- Any website can be altered by your computer or your Internet activity
  - The cookies stored on your system effect a page
  - Your Internet browser effects the page
  - Your browsing history effects the content shown and the active content

- If you would like to see this in action go to Facebook or Twitter and change your language to Spanish, close your browser and then go back to the Internet

- Always remember: Your Internet is not my Internet
Collecting Entire Websites continued

• Active content is hosted at different locations than the website
• Free: HTTrack and Wget
• Commercial: Offline Explorer and Teleport Pro
• For LEO: Webcase
Avoiding Suppression & Lawsuits
Ensuring Legal Authority to Act

- **Search Warrant**
  - To seize or search a target’s computer, portable hard drives, etc.

- **Title III Orders—18 U.S.C. 2516**
  - Intercepting ongoing communications via ISP
  - Search warrant standard

- **Stored Communications Act—18 U.S.C. 2701 (1986)**
  - Data held by ISP
  - Search Warrant/Subpoena (<180 days/>180 days)
  - Recent Case: not applicable to foreign-based servers
Ensuring Legal Authority to Act

- Subpoenas
  - Directed to ISP
  - LE Guides
  - Subscriber information
  - IP address information
  - Domesticating SDT request
  - Foreign companies: extremely difficult
Anonymity
Anonymity

- Protects you and your investigation
- Building a persona
- Depersonalizing your computer
- Anonymizing your activity
  - Proxy servers
  - Tor
  - Tails
Anonymous Email

• Why needed?
  – Necessary to set up browsers
  – Access websites

• Anonymous Email Services:
  – Anonymous.org
  – Guerrilla Mail
  – Jetable
  – Mailinator
  – Send Anonymous Email

• Anonymous Identity Services:
  – DataFakeGenerator.com
  – Create an identity for you, usually in a foreign country
Anonymize Your Activities

- Common Web Anonymyzers:
  - Anonymouse.org
  - Hidemyass.com (warning German)
  - Kproxy
  - Newipnow
  - Ninja Proxy
  - Webwarper

- Common VPN Services:
  - Anonymizer.com
  - BT Guard
  - Private Internet Access
  - Proxy.sh
  - TorGuard
  - TorrentPrivacy

- Proxy Servers:
  - Proxy Servers List (www.proxies.by)
Tails

• Tails is a bootable USB or DVD that runs as your operating system bypassing your regular system and temporarily storing your browsing information on the USB or DVD

• This keeps you from unintentionally accessing a site while not anonymized and it keeps you from saving browsing data to your computer where it can be discovered at the next browsing session

• You can use it to store electronic evidence while browsing but you must remember to save that data before you shut down the program or it will be erased
Why Anonymization is Important

• The case of Bill.
• Bill – ancillary party to a fugitive investigation
• He was a foster father to one of the children of the fugitives
• Although no law enforcement investigation occurred and CPS found no evidence – the social worker responsible for the child’s case had “concerns”
• I reviewed these files as part of the fugitive investigation
  – I also had “concerns”
Bill continued…

• Activities: hang out with neighborhood boys, sleepovers, multiple gaming systems, giving beer, showing pornography, having parties
• Many other concerns regarding his behavior and activities in real-time
• Checked into his online personas
• He is an IT web designer with multiple computers in his home.
• He is also an amateur photographer and frequent traveler to Asia
What was Discovered

• Within a legitimate website he designed for a realty group was a multi-domain proxy server communicating with other multi-domain servers in India, South Korea, and 3 locations within the U.S.

• Following the server path to a website produced child pornography featuring Asian children.

• If this site was opened, viewed, and a whois performed on this site from a law enforcement computer even just once…. 
Seeking Other Professionals

• Online investigations may involve multiple agencies, jurisdictions, countries, and governments
• It is necessary for these agencies to be able to communicate to prevent the duplication of effort and the interference in other investigations
• Coordinating investigations through the Canadian RCMP Integrated Child Exploitation (ICE) Teams and the U.S. Internet Crimes Against Children (ICAC) Task Forces are essential
Social Media Investigation

- Creating a profile:
  - Use your new email and anonymized computer
  - Don’t provide any real information
  - Don’t use a photo that can be searched
    - Tineye, Google image search

- Monitoring:
  - Join the community
  - Use a free product
  - If extensive social networking: use a commercial product
Searches

• 3 types of Internet search services:
  – Search directories – search the text in title & description
    • Yahoo! Directory
  – Search engines – search webpage content
    • Google
    • Bing
    • Startpage
    • Duckduckgo
    • Safari
  – Metasearch engines – search directories and search engines
    • Dogpile
    • Yippy aka Clusty search
    • Pandia
Boolean Logic Searching aka How to Speak Computer

• The Internet is a vast computer database which can only be searched according to the rules of computer database searching
• Boolean logic refers to the logical relationship among search terms
• Each search engine or social media site has its own language of preferred search terms
• In other words, in order to speak to a computer it is best to actually speak “computer”
Boolean Social Media Search Terms

- **AND, OR, NOT** and **NEAR, WITHIN** etc…
- All of these terms can be represented by punctuation marks
- ( ) closes a query (wheel AND bicycle)
- “ ” contain two words side by side “Mike Smith” this produces Mike Smith not Mike AND Smith
- “ ”~# two or more words found together within a certain # of words (“BBT bank”~5) bank must be within 5 words of BBT
Tips from the NSA

• Use more than one search engine
• Weigh the validity and accuracy of the content
• The default operator is AND [space = AND]
• Learn the search syntax for the engine you use most
• Search engines weight a website by how much it pays them and by popularity
• HTML does not have a date. Dates mean little in Internet searches
Pandia’s Search Recommendations

- Use only keywords [OR synonyms] in searches
- Specific info – use an engine; general info – use a directory
- Use several search engines
- Bad or no results – read the services help page
- Check spelling – alternate spellings – text speak – British English?
- Quotation marks for phrases and names
- Use AND or + to limit hits
- Truncate words to get singular and plural hits
- Main subject always goes first
- No nested brackets
Searching with Google

- Web crawler
- Focus: collect information [including your info]
- The blue hyperlink takes you to the web artifact found by Google
- The indented links are multiple links to pages within the first webpage found
- Cached page: the last version of the page that Google crawled – gets overwritten with every crawl
- The date it was cached is at the top of the page
- Query two terms use + sign
- Responds to the majority of Boolean operators – better results with symbols
<table>
<thead>
<tr>
<th>Operator</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Definitions</td>
<td>Define:term</td>
</tr>
<tr>
<td>News headlines</td>
<td>News:topic</td>
</tr>
<tr>
<td>Cached pages</td>
<td>Cache:url</td>
</tr>
<tr>
<td>Search within site</td>
<td>Site:domain.com</td>
</tr>
<tr>
<td>Search for links</td>
<td>Link:domain.com</td>
</tr>
<tr>
<td>Term(s) in URL</td>
<td>Inurl:term</td>
</tr>
<tr>
<td>Term(s) in title</td>
<td>Intitle:term</td>
</tr>
<tr>
<td>Term(s) in body of text</td>
<td>Intext:term</td>
</tr>
<tr>
<td>Term(s) anchor text</td>
<td>Inanchor:term</td>
</tr>
<tr>
<td>Specific file type</td>
<td>Ext:filetype</td>
</tr>
<tr>
<td>Related sites</td>
<td>Related:url</td>
</tr>
<tr>
<td>URL-related info</td>
<td>Info:url</td>
</tr>
</tbody>
</table>
Searching with Bing

- Focus: sell [you] products & services
- Bing ignores + signs, it searches all words
- Also has a cached version of pages
- Does not have an advanced search page like Google
- Responds to most Boolean operators but prefers search terms
- Bing wants access to your social network account and searches those networks for your search terms
# Bing Advanced Keywords

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP: finds sites hosted by that IP</td>
<td>IP: 97.74.84.921</td>
</tr>
<tr>
<td>Prefer: Adds emphasis to a search term</td>
<td>investigator prefer:FBI</td>
</tr>
<tr>
<td>Ext: only webpages with that filename extension</td>
<td>“death investigation” ext:docx</td>
</tr>
<tr>
<td>Filetype: only webpages created in that filetype</td>
<td>forensic filetype:pdf</td>
</tr>
<tr>
<td>Inanchor:, inbody:, or intitle: only returns sites with the specified term in the metadata (anchor, body, title)</td>
<td>inanchor:forensic inbody:fingerprinting inbody:RCMP</td>
</tr>
<tr>
<td>Site: returns pages belonging to that site. Use OR to group domains</td>
<td>Cybercrime (site:justice.gov OR site:fbi.gov)</td>
</tr>
</tbody>
</table>
Other Search Engines

- **Duckduckgo** – anonymous search, Tor search
  - Uses Boolean search terms - signals
  - Less adds, no add tracking
- **StartPage** – anonymous search
  - Can be added to Safari
  - Safari – anonymous browsing
  - Intuitive search
- **Yahoo!** – powered by Bing
- **Ask.com** – Q&A repository no longer a webcrawler
- **AOL** – warning data leakage
  - + AND – NOT, language Boolean OR
  - Complete sentences!
- **Exalead** – foreign language search (“learns”)
  - Uses advanced Boolean language terms
  - NEAR default 10 words ~ NEAR/3
Search Names

- Names: capitalize, Use “”, Request Tier 1 & Tier 2
  - General search first: Google
  - Second try people search: Pipl

- **Tier 1 person info:**
  - Name
  - Photo
  - Birthdate - Age
  - Home address - Telephone number – property ownership
  - Email or User name
  - Case law
  - Case law

- **Tier 2 person info:**
  - Employment – occupation
  - City & State
  - Education
  - Interests
  - Associates
Telephone & Email Address

Phones

• General Search: 555-628-1111
• Primeris Fone Finder http://www.primeris.com/fonefind/

Email

• General Search – may need “” also use the identifier as a possible user name bobEsocks89@gmail.com [“bobEsocks89”]
• Locates sites where this email address has been used
Email continued…

- EmailFinder.com
- Myemailaddress.com
- MailTester.com
- JigSaw.com
- name2email – Rob Ousbey of Distilled.com
  - Email permutator
    https://docs.google.com/spreadsheet/ccc?key=0AoW7aks0VU98dGNFSUtfeXg4akpNTWM0Z2pHWjJzZUE#gid=0
- #LinkedIn
- Email Sherlock and User Sherlock
  - All uses within social media
  - Notifies users via email of searches
Hi Marnie Dollinger,

Someone from Palo Alto, CA, United States searched your email and found your social media profile(s).

To see what they found out about you, click here.

©2012 EmailSherlock.com

You're receiving this email because someone you know searched for you through our website.

This email is one time notification in case of a search. This email may be considered an advertising or promotional message. If you'd like to unsubscribe from future notifications click Unsubscribe. P.O. Box 990043, Boston, MA 02199.
Searching Blogs

- Search for blog authors & contributors
- Search for blog commenters [includes most news]
- Blogs.com
- Blogdigger.com
- Blogsearchengine.com
- Feedster.com
- Google Blog Search [www.google.com/blogsearch]
- Technorati.com
- Yahoo.com
- Icerocket.com – Blog search
- Social-buzz.net – Blogs, twitter, YouTube
Social Network Searching & Tracking

- Bing.com/social – Any mention on Facebook & Twitter
- Pipl.com – Locate profiles in Social Networks
- Icerocket.com – Twitter and MySpace search
- Spokeo.com – Search and Track (history)
- Monitter.com – Search and Track Twitter users
- Socialmention.com – Blog search
- Addictomatic.com – Social networks
- Whostalkin.com – Chat searching (social network chats)
- Kurrently.com – Trending topics and posters
- Tweetreach.com – twitter activity and timelines
- Yoname.com – Search email (WARNING!!)
- EmailSherlock.com & UserSherlock.com
  - Watch out for the Facebook cross-post option
  - Notification of email address search
Who is Searching for You?

- Yoname.com – notification
- whogoogleme.com
- people411search.com
- MyLife.com
- Ziggs.com – social network that contains “visitor tracking” notification
- Facebook – who visits your page the most
- UnFriendFinder, FriendsChecker, Qwitter
- EmailSherlock
- Research Gate
- Academia.edu
“The power to share and make the world more open”

- Search for the name + location
- Name may be the URL
- Hover over the account name with your mouse
- Right click the name and copy/paste to a document
- HTML Code: go to the profile, select View>Source [IE] or Tools>View Source [Chrome] then Notepad will open with the HTML source code
  - Search “user”: = users ID number
  - “URL=/” and “title id =“pageTitle”” = user account name
  - “?hc_location=timeline” = friend pages
Case Study: James Coulton

- Emailed our Office
- Email was xxx@milpitasrestoration.com
- Google “Milpitas Restoration”
- Business: milpitasrestoration.com
Milpitasrestoration.com

milpitas restoration services

Making home a better place to live

At Milpitas Restoration Services We specialize in cast stone installation and repair, marble and granite polishing , repairing , etching and stain removal. Although that is the specialty, all other remodel and renovation services are available to you. Whether its fence repair, housepainting ,skilled labor or ditch digging, (the world needs ditch diggers too), we have it covered. licensed and insured . We don't have the overhead that the other guys do so you get the savings and we keep busy. References will be provided upon request . james@milpitasrestoration.com

questions are free too

james@milpitasrestoration.com
DO YOU KNOW JAMESK?

If you know Jamesk, send him a message.

Intro

cast stone, marble, granite. at Self Employed and Loving It!

- Studied at Cabrillo College
- Studied your mama at Your Mama’s House
- Went to Milpitas High School
- From Milpitas, California
“James Coulton” “Sex Offender”

“Non-Compliant Sex Offender Wanted”
• **www.twitter.com/**{twittername}
  
• Doesfollow.com = if one twit is following another
• Friendorfollow.com = twitter, Instagram, tumblr searches account for followers, friends, & fans
• Trendsmap.com = track tweets from a geo location
• Twitter Creepy [http://www.geocreepy.com/](http://www.geocreepy.com/)
  – Triangulation data from the twits tweets
• Apigee.com/console/ = Twitter API info – metadata not on the users info page
• Twitter specific search:
  – Backtweets.com
  – Nearbytweets.com
  – Tweetalarm.com
  – Twazzup.com
  – Tweetreach.com
Google+

Circles

• Very similar to Facebook
• Users post statements, which their followers can “like” or as Google+ calls it “+1”
• Can post photos & videos to be shared with friends
• Can limit their public presence and interactions to “circles”
• A Google+ account is given to any user who has a Gmail account. (You have to opt out)
  – This means there are a lot of Google+ accounts that are inactive.
  – This also means that there may be Google+ accounts associated to business or schools
  – This includes a large number of elementary/primary grade pre-teens and children.

Search terms

• J = scroll down
• K = scroll up
• / = select the search box at the top of the page
• N = next comment
• p = previous comment
• Shift+space = scroll up
• ? = open list of keyboard shortcuts
Google+ = Case Intelligence

• Eric Toth – FBI most wanted fugitive
• Former elementary school teacher
• Wanted for the production of child pornography
  – Insinuated himself into the lives of children he was attracted to by befriending the family
  – Made videos in the family homes and at school
  – Focused on specific male students
Toth Continued

• Was caught in Nicaragua after a tip from a tourist
• Very adept at Internet usage (programming, accessing child pornography, identity theft)

• How does Google+ feature in his case?
  – All of the children from his classes had Google+ accounts through their school Gmail
  – They were using them to chat, post photos, and post videos
  – They also used their accounts to discuss Toth
• When searching for case related information – read everything available

• You never know where information useful to your investigation may be found

• It can be in unexpected places

• Melvin Ehrlich, Pediatric Dentist – “WEE CARE FOR KIDS”
This one was super easy

Yelp is an online review site where users post reviews of businesses or places.

User name often linked to other social media sites

User often posts a picture and location

- Framingham Massachusetts
- Person chatting online about child rape and sharing child pornography via email
- Images and saved chats found after the computer was brought in to service techs to be fixed due to a ‘mystery’ virus
- Work computer of a local pediatric dentist
- Simple Google search brings up Yelp* reviews
Always read everything on your subject
You never know what gems you might find

• Reviews on Yelp* from parents of children brought to the clinic
• Some positive reviews – most from parents of significantly disabled children who are happy they finally found a dentist to treat their child.
• The children (most of whom are non-verbal) are sedated for every procedure
• Many complaints from parents who were not allowed into the room during exams
• Many reports of children being “terrified” and “screaming” when the parent was finally allowed into the room after treatments
• Does this prove sexual assault?
  – NO – BUT WOULDN’T YOU FOLLOW-UP?
- Blogging platform
- Can add content from websites
- Can upload their own photos
- Discuss and share content
- Private messages, liking etc..
- Lots of pornography
- Numerous rape images have been posted
- Large scale “sharer” of victim produced child pornography
- Microblogging forum
- Owned by Yahoo! Inc
- Users can follow other peoples blogs and make their own blogs
- Users can have private blogs – invitation only
- Tumblr limits search of pornography and violence terms … but there are many, many blogs
• 13 million users
• Strong presence in most countries
• Terms Of Service (TOS)
  – Pinterest wants to geolocate with you and all of your friends
• Access to photos, geo-locations
• Access to friends and contacts
• Access to interests
• Access to email address

Username = pinterest.com/username
(often the same as Facebook or Twitter)

• Users:
  • Can remove themselves from searches
  • Can have secret boards that are only accessible by invitation
  • Can make business or group boards
  • Spend approximately 90+ minutes a month on the site
## Other Sources of Usernames

### Games
- PC accessible games
  - World of Warcraft
  - Call of Duty
  - Minecraft
- Game consoles
  - PS2
  - Nintendo
- Gaming blogs
- Gaming social networks

### Chat
- AIM (AOL Instant Messenger)
- Apple Messages
- CGI:IRC (Internet Relay Chat)
- Google Talk
- Skype
- Windows Live Messenger
- Miranda IM
- Trillian
- Cryptocat
- I2P
- Omegle
- QIP (Quiet Internet Pager)
- Many more
Photos

- Flickr – allows geotagging
- Photobucket – photo backup services & searching for user names or names without logging in
- Instagram – links to all social media
- Shutterfly, snapfish, pbase, smugmug, photo.net
- Jeffrey’s Exif Viewer (http://regex.info/exif.cgi)
- Tineye – used elsewhere
Instagram

- Online photo-sharing and social networking service
- Users upload their own photos, apply a digital filter to it and share
- Shares across a variety of social networking sites
- Users can add hashtags to photos or make comments

- More “shareable” than Flickr
- Used more often on social platforms
- Personal photos = Instagram
- Professional photos = Flickr
- Preferred photo sharing site of Twitter and Facebook users – links to their account
- Instagram.com/USERNAME
- You can see: Who follows them and who they follow
Geotagging and EXIF Data in Photos

- Identifies where a photo was taken
  - **Two types:**
    - Manual user entry into an image editor or photo album software
    - Automatically added to the image, like a date stamp by the device taking the photo
  - **Where is it stored?**
    - Metadata: found in photos, videos, pdf, Word, Excel etc....
    - EXIF is the specification for digital imagery (Exchangeable Image File)
Jeffrey's Exif Viewer

check a file on the web...

Image URL:  

View Image At Url

or check a file on your local disk:

Local Image File:  

Browse  

View Image From File

Works with these file types:  

JPG, JPEG, JPEG2000, PNG, GIF, BMP, TIFF, PCD, PDF, PPT, HTML, XML, DOC, XLS, XLSX, RTF, TXT, CSV, XML, RDF, RSS, Atom, XML, YAML, JSON, INI, CSV, YML, XML, XSL, XML, XSD, XSL, XSLT, XSLF, and ZIP. 

Powered by Phil Harvey's ExIfTool.
Sale Sites

- Often a source of EXIF data in photos
- Cell phone numbers
  - Best source of info
  - “Phone boners” in chats give out their cell phone #
  - Many of them also sell items in the craigslist classifieds or AutoTrader sites
- User names often linked to other accounts or vice versa

- Craigslist
- Ebay
Location Based Social Networking

- Foursquare, Facebook Places, Gowalla, SCVNGR etc....
  - Every app on your phone that asks to use your location is using geo-tagging to locate and follow you
- Photo sharing Apps such as Flickr, Instagram ask to use geo-locations but don’t post the original image so usually EXIF data has been removed (usually)
  - Facebook, Pinterest and Tumblr request geographic information
- If a user has not turned this off on their device or within the app – that information is stored in their site and on their photo or documents (even if changed at a later date)

- **Phone GPS mapping** – not just what they searched for but everywhere they went
• Youtube.com
  – Search directly in the largest network of video material available
  – Youtube user search (Google usernames to locate profiles)
• Video.google.com
  – For people who don’t have access to youtube
  – Videos from other feeds (including Youtube & Vine)
• Vine.co
  – Twitter’s video sharing platform (app)
  – Short looping video
• Vimeo.com
  – Video upload and sharing from mobile devices
  – Create ‘channels’ of videos
• Periscope & Meerkat
Case Study: Timothy Adams

- Tip: in Hawaii, from Kentucky, Indiana Conviction, ‘birther’
- Confirmed name & DOB
- NSOPW: No record
About 1,070 results (0.44 seconds)

Sex Offender Record For Timothy L Adams 42351 - sorarchive.com
www.sorarchive.com/zipdirectory/KY/42351/Timothy_L_Adams_1286665
Apr 7, 2016 - Kentucky Sex Offender Archive Record For Timothy L Adams. More Information About This Offender. Timothy L Adams View photos: 1

Timothy L Adams in Lewisport Kentucky Sex Offender Record
www.sorarchive.com/offender/view/1286665 ▼
Sex Offender Archive Record: Timothy L Adams. More Information About This Offender. Timothy L Adams View photos: 1. Last known address: 810 Market Street

Timothy L Adams Lewisport KY Sex Offender Record - sorarchive.com
www.sorarchive.com/directory/KY/A/Timothy_L_Adams_1286665 ▼
Kentucky Sex Offender Archive Record For Timothy L Adams. More Information About This Offender. Timothy L Adams View photos: 1. Last known address:

Timothy Lamont Adams - Sex Offender or Criminal in Owensboro, KY ...
www.homefacts.com › Offenders › Kentucky › Daviess County › Owensboro ▼
View Sex Offender or Criminal registry info for Timothy Lamont Adams in Owensboro, KY 42301 - KY4086. TIMOTHY L ADAMS, Timothy Adams. Collected from ...

Print Flyer - Sex Offender Individual Record
ksp sor.state.ky.us/Home/PrintFlyer/4086 ▼
Sex Offender Registry ... TIMOTHY L ADAMS ... USE OF INFORMATION FROM THIS WEBSITE TO HARASS A SEX OFFENDER IS A CRIMINAL OFFENSE ...

OffenderDetails - Kentucky Sex Offender Registry
ksp sor.state.ky.us/Home/OffenderDetails/4086 ▼
Sex Offender #: 4086; Birth Date: 6/3/1968; Gender: Male; Registry Type: Lifetime; Registry Status: Compliant; Supervised Release: NO ... TIMOTHY L ADAMS.

ADAMS, TIMOTHY LAMONT - Kentucky Sex Offender Profile.
www.sexoffenderprofiles.com/kentucky/offender_details/4086 ▼
Indiana Sex Offender Archive Record For: Timothy L Adams

Timothy L Adams
View photos: 1

Last known address:
IN 00000

Gender: M
Age: 42
Height: 5 ft. 11 in.
Weight: 140
Race/Ethnicity: White
Hair Color: Brown
Eye Color: Blue
Alias(es): NoAliases Found.
Offense: CHILD MOLESTING

Offense and Court Details
Statute: [35-42-4-3]
Conviction Date: 1991-05-22
Release Date: 1993-12-13
Birther Tim Adams announces support for Obama - Obama ...
www.obamaconspiracy.org/2012/.../birther-tim-adams-announces-support-for-obama... ▼
Oct 1, 2012 - Adams is cited in birther lawsuits and remains a star in the birther sky, ... Timothy Adams New video up now: I've Changed My Vote 2012: FOR ...

The Facts Behind the Birthers - YouTube
https://www.youtube.com/watch?v=x5AjemKWQI
Oct 6, 2012 - Uploaded by Timothy Adams
Timothy Adams ... why he left the Birther movement, what went on behind the scenes, and YES, ... Birthers ...

Hawaii official now swears: No Obama birth certificate - WND.com
www.wnd.com/2011/01/254401/ ▼ WorldNetDaily ▼
Jan 24, 2011 - Notary seal on Timothy Adams' affidavit ... that no Hawaii long-form, hospital-generated birth certificate existed for Senator Obama in the Hawaii ...

RC Radio March 31 – Timothy Adams | RC Radio Blog
Mar 31, 2011 - Tim Adams Timothy Adams, a former Hawaii election clerk is my guest tonight ... Did Birther Gregory Hollister commit identity theft – and worse?

Right Now - Honolulu city clerk debunks new 'birther' theory
voices.washingtonpost.com › Politics ▼
Jun 21, 2010 - Over the past few weeks, a Kentucky resident and teacher named Timothy Adams has made the rounds online and on talk radio with an ...
Honolulu city clerk debunks new 'birther' theory

Over the past few weeks, a Kentucky resident and teacher named Timothy Adams has made the rounds online and on talk radio with an extraordinary claim -- he was the "senior elections clerk" for Honolulu in 2008, where it was an open secret that the city and state had no proof of Barack Obama's citizenship. As he told WorldNetDaily, the racing form for birtherism:

I had direct access to the Social Security database, the national crime computer, state drivers license information, international passport information, basically just about anything you can imagine to get someone's identity. I could look up what bank your home mortgage was in. I was informed by my boss that we did not have a birth record for Barack Obama.

I checked with GIS...

---

https://www.youtube.com/channel/UCWjoR9b1w-p2N4gr8Y3Fg
Discourse and Conflict: The President Barak H. Obama Birth Certificate Controversy and the New Media

Timothy Lee Adams
Western Kentucky University, timothy.adams773@topper.wku.edu
Timothy L Adams

Professor in the English department
at University of Hawaii: Honolulu Community College, Honolulu, HI

Rate this professor  Share

Submit a Correction | Learn How Ratings Work

Overall Quality: 4.3

Would Take Again: N/A

Level of Difficulty: 2.0

Top 20 Tags for this Professor

Participation Matters (1)  Gives Good Feedback (1)

Choose Your Tags
# What Sites/Apps are the Kids Using?

## Texting
- Kik Messenger  
  - Easy to locate kids
- Burn Note
- FireChat (no internet or phone network needed)
- WhatsApp  
  - Immediately connects to users network of contacts
- Grom Social
- GroupMe  
  - Teen chat  
  - Can send photos, videos, and calendar links

## Sites
- Instagram, Twitter, Tumblr
- Ask.fm
- Musical.ly / Live.ly  
  - Lip synching videos
- YouNow  
  - Live streaming
- Whisper / Fess  
  - Confessions – has *meet me*
- AfterSchool
- Yik Yak  
  - Geographic based chat
- Omegle  
  - Pairs you with a stranger
- MeetMe
Snapchat

- Images uploaded by users and per the app disappear automatically within 1-10 seconds
- “Find Friends” feature
- Must keep your finger on the touch screen
- Can take a screenshot – it notifies the sender if one is taken
- Main demographic is users between 13-23

Snapchat just settled a lawsuit
- They collected Geo data
- They collected contacts
- And they lied about their product
- Photos can be saved by anyone with their phone connected to their computer
Instant Messaging

- **Meebo**
  - Most popular, easiest to use
  - Multi-tab (multi chat)
  - iPhone file sharing
  - Firefox sidebar
- **Nimbuzz**
  - Cellphone
  - Can load all chat accounts into Nimbuzz
- **Imo.im**
  - Buddy lists
  - Planned merge with Skype
- **KoolIM**
  - Firewall protected
- **eBuddy**
  - Keeps a chat history
- **ICQ**
- **Xfire**
- **Jabber**
- **Gadu-Gadu**
- **Yahoo! Messenger**
- **IRC**
  - mIRC
  - ALT=O>Connect>Proxy
  - Mibbit
  - KiwiIRC
  - freenode
- **Cross platform chat:**
  - Digsby.com
  - Miranda ([www.miranda-im.com](http://www.miranda-im.com))
  - pidgin.im
  - Trillian.im
## Dating Sites

<table>
<thead>
<tr>
<th>Sites</th>
<th>Apps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badoo – International</td>
<td>Tindr – hookups</td>
</tr>
<tr>
<td>PlentyofFish</td>
<td>Grindr – gay male hookups</td>
</tr>
<tr>
<td>Match</td>
<td>Brenda – lesbian dating</td>
</tr>
<tr>
<td>OK Cupid</td>
<td>Down – aka Bang with Friends</td>
</tr>
<tr>
<td>Farmers Only</td>
<td>3ndr – Threesomes</td>
</tr>
<tr>
<td>Christian Mingle</td>
<td>Whiplr – Kinksters</td>
</tr>
<tr>
<td>BikerKiss</td>
<td>KNKI – Kinksters</td>
</tr>
<tr>
<td>FetLife</td>
<td>Sizzl – Bacon lovers</td>
</tr>
<tr>
<td>Maple Mate</td>
<td>Happn – Geolocation 24 hours</td>
</tr>
<tr>
<td>– “Make America Date Again”</td>
<td>Hinge – 3 degrees of your social network:</td>
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<tr>
<td></td>
<td>friends, friend’s friends, and their</td>
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<td></td>
<td>friends</td>
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<td></td>
<td>Skout – 13+</td>
</tr>
</tbody>
</table>
Fun with Dating Sites

- Many prison programs have made their dating sites and personals publicly searchable.

- Match.com
Social Discussion

- Reddit
- Imgur
- 4chan
- 8chan
- Gurochan

- Crime solving sites:
  - Websleuths
  - The Dreamin’ Demon
  - Hellbeasts
  - Memepool
  - Nextdoor
  - Streetlife
How to Preserve Evidence

Law Enforcement Online Requests

Request Secure Access to the Law Enforcement Online Request System

We disclose account records solely in accordance with our terms of service and applicable law.

If you are a law enforcement agent who is authorized to gather evidence in connection with an official investigation, you may request records from Facebook through this system.

☐ I am an authorized law enforcement agent and this is an official request

Request Access

Warning: Requests to Facebook through this system may be made only by governmental entities authorized to obtain evidence in connection with official legal proceedings pursuant to Title 18, United States Code, Sections 2703 and 2711. Unauthorized requests will be subject to prosecution. By requesting access you are acknowledging that you are a government official making a request in official capacity. For further information please review the Law Enforcement Guidelines.
Law Enforcement Guides

• Each social media site has a policy on how they work with law enforcement.
• Every law enforcement agency needs a policy on how to collect digital, data, and social media evidence.
• The Internet is constantly changing even a site that seems static – is a real time site that can be altered.
• It is possible to delete data from a single email or photo to wiping an entire hard drive from a remote location.
• No evidence found by an investigator will remain unaltered by that contact and additional alterations can make it inadmissible in a court of law.
Questions or Comments?

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