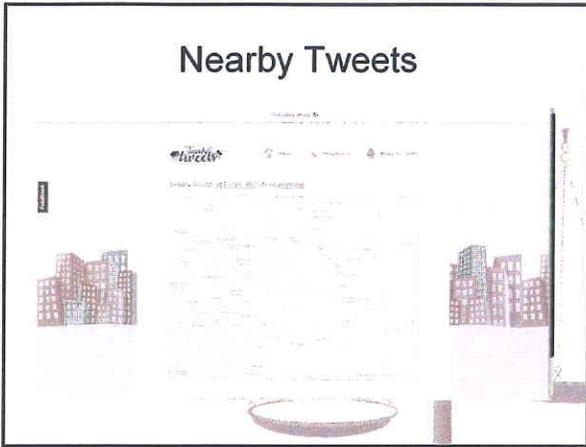
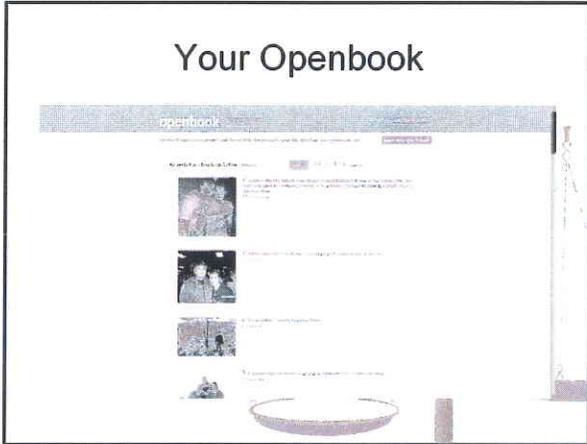


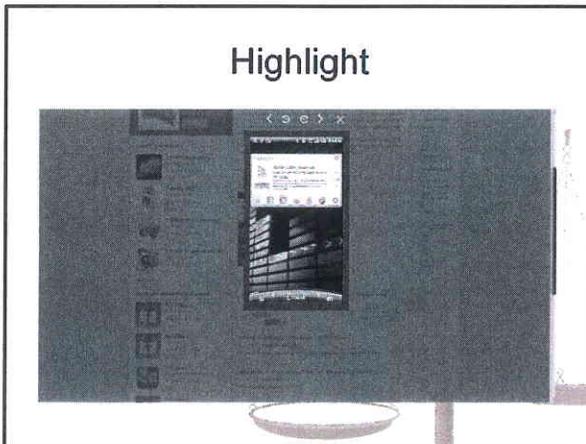
Nearby Tweets



Your Openbook



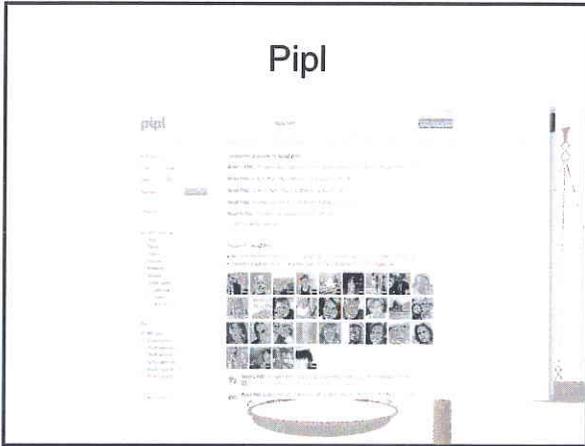
Highlight



Banjo

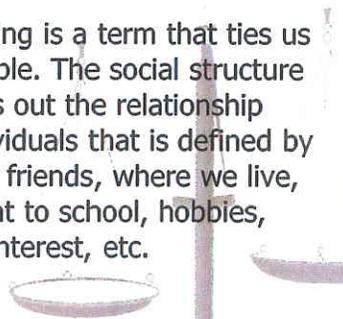


Pipl



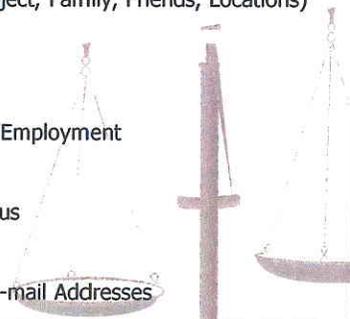
What Is Social Networking?

Social networking is a term that ties us to other people. The social structure that maps out the relationship between individuals that is defined by our families, friends, where we live, work, went to school, hobbies, interest, etc.



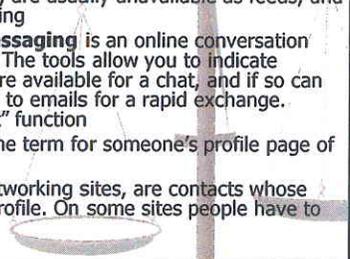
How Social Networks Assist Investigators

- Photographs (Subject, Family, Friends, Locations)
- Current Town
- Home Town
- Hobbies/Interests
- Age
- Education/School/Employment
- Religion
- Current Location
- Relationships Status
- Posts
- Last Login Time
- Phone Numbers/E-mail Addresses



Brief Glossary Of Social Networking Terms

- **Blogs** are websites with dated items of content in reverse chronological order, self-published by bloggers. Items – sometimes called posts – may have keyword tags associated with them, are usually unavailable as feeds, and often allow commenting
- **Chat or Instant Messaging** is an online conversation with another person. The tools allow you to indicate whether or not you are available for a chat, and if so can be a good alternative to emails for a rapid exchange. Facebook has a "chat" function
- **Facebook Page** is the term for someone's profile page of Facebook
- **Friends** on social networking sites, are contacts whose profiles link in your profile. On some sites people have to accept the link



Brief Glossary Of Social Networking Terms

- **Groups** are collections of individuals with some sense of unity through their activities, interests or values. They are bounded; you are in a group, or not. They differ in this from networks, which are dispersed, and defined by nodes and connections. Email lists and forums sit easily with bounded groups, blogs with networks – although the match with tools is not entirely clear-cut. A group may use a blog, and an email list may serve a network
- **MySpace Page** is the term for someone's profile page on MySpace
- **Post** to post is to comment on someone's profile page. In turn, the comment you made is a "post."

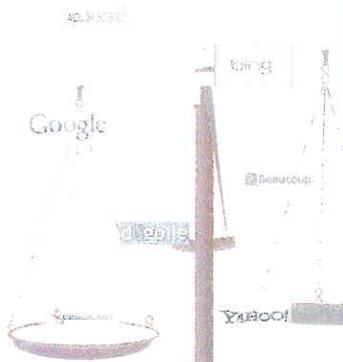


Brief Glossary Of Social Networking Terms

- **Profiles** are the information that you provide about yourself when signing up for a social networking site. As well as a picture and basic information, this may include your personal and business interests, a "blurb" about yourself, your interests. Often times, profiles will reveal a person's geographical location, age, religion and relationship status
- **Status Update** is a space on a profile where the profile owner may write whatever they want, usually a person writes what he or she is currently doing
- **Wall** is the place where people who are your friends may post comments about you. This is helpful in investigations because you can read what other people have posted about the individual.

Search Engines

- Google
- Yahoo
- Bing
- AOL Search
- Ask
- Alta Vista
- All the Web
- Gigablast
- Netscape Search
- Snap
- Dogpile
- Beaucoup



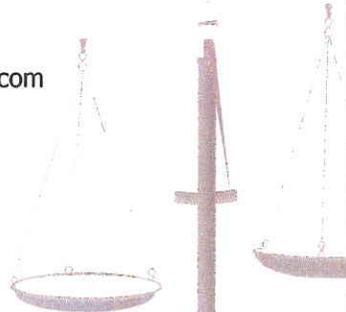
Social Networking Sites (over 500)

Most Popular

- Facebook – over 750 million users (largest social networking site)
- MySpace – forum younger people (mostly teens)
- Twitter – Free social networking site – allows tweeters to send tweet text based posts up to 140 characters
- Friendster – allows users to contact other members, share online content and media also used for dating
- You Tube – video sharing website
- Craigslist – Centralized network of online communities featuring free online classifieds

Social Networking Sites

- Bebo.com
- LinkedIn.com
- Vampirefreaks.com
- Athene.com
- V. Kontakt
- Taltopia
- Cafemom

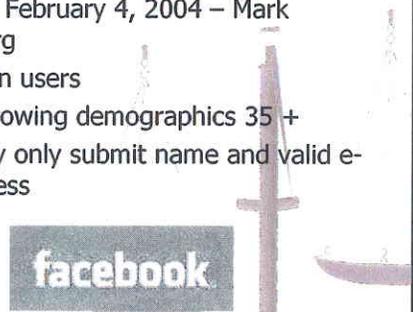




The screenshot shows a registration page with a sidebar on the left containing a smartphone icon and a main content area with a 'Sign Up' section. The 'Sign Up' section includes fields for 'First Name', 'Last Name', 'Email', and 'Password', along with a 'Sign Up' button and a 'Forgot Password?' link. There is also a 'Log In' section with fields for 'Email' and 'Password' and a 'Log In' button.

Facebook Overview

- Launched February 4, 2004 – Mark Zuckerberg
- 750 million users
- Fastest growing demographics 35 +
- Users may only submit name and valid e-mail address



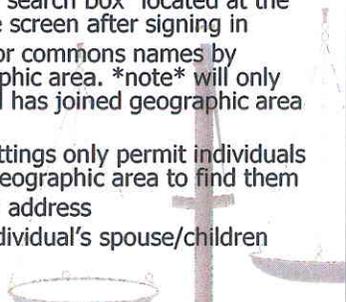
Facebook Profile

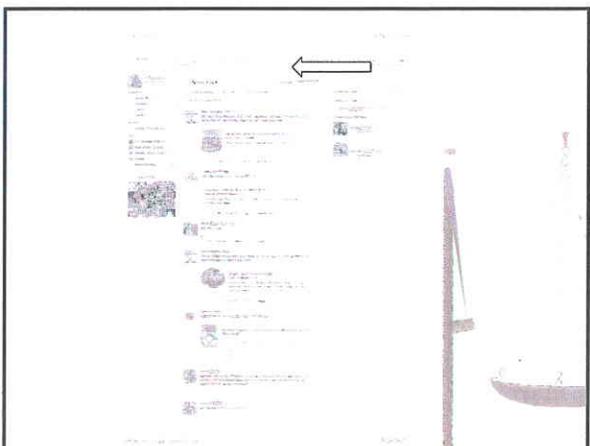
- Profile Picture
- Wall – area where user and user’s friends can post short messages
- Status Message
- Wall posts from friends
- Activity tracking



Locating a Profile

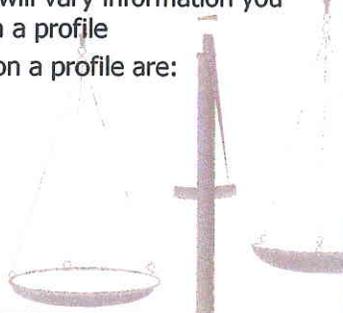
- Type name into “search box” located at the top center of the screen after signing in
- Narrow search for commons names by selecting geographic area. *note* will only work if individual has joined geographic area you select
- Some privacy settings only permit individuals from the same geographic area to find them
- Search by e-mail address
- Try searching individual’s spouse/children





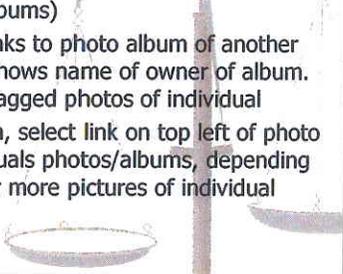
Obtaining Evidence From The Profile

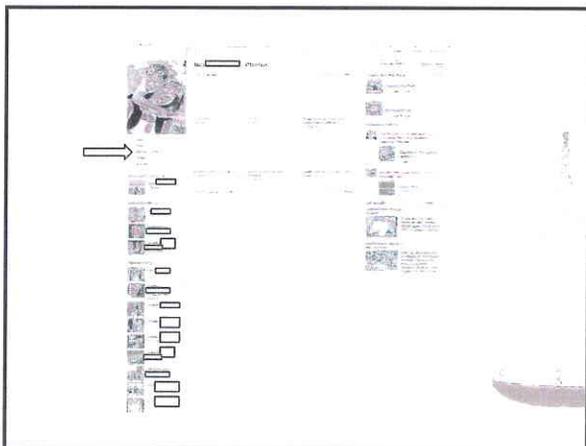
- Privacy setting will vary information you can obtain from a profile
- Common links on a profile are:
 - Photos
 - Wall
 - Info
 - Friends
 - Events
 - Notes
 - Videos



Photos

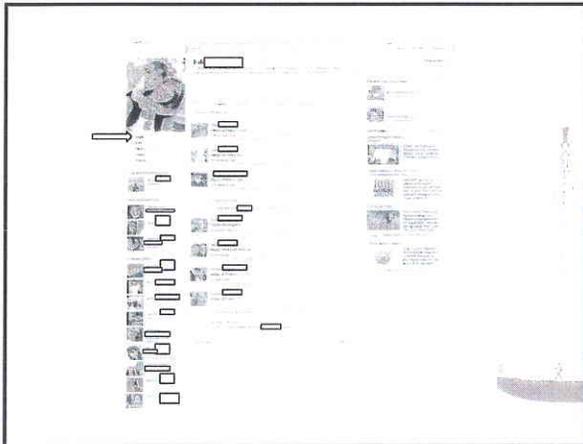
- Profile photos is posted on top left of page. Below is link to "View photos of ___" (tagged photos, profile pictures & photo albums)
- Tagged photos – links to photo album of another Facebook profile. Shows name of owner of album. View album for untagged photos of individual
- After viewing album, select link on top left of photo to view that individuals photos/albums, depending on privacy, view for more pictures of individual





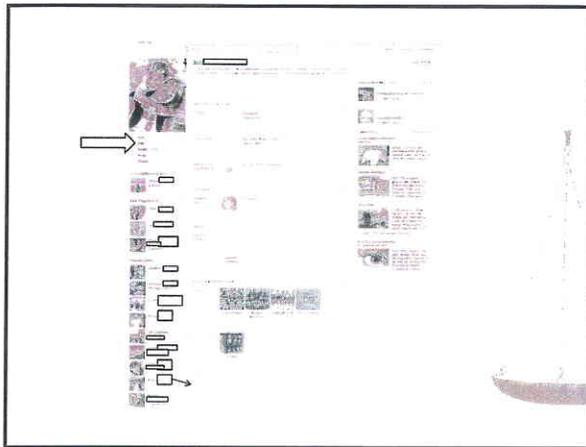
The Wall Tab

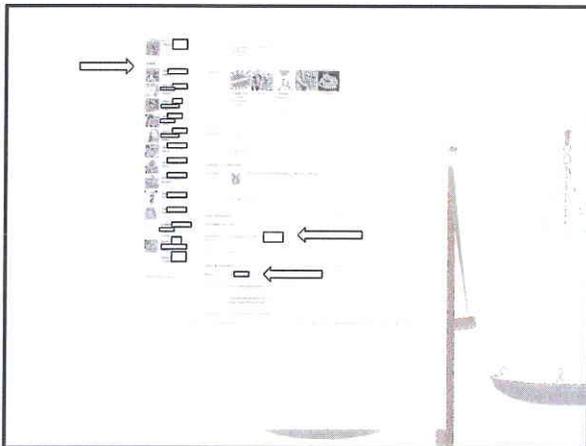
- Info available depends on privacy settings
- Viewable wall shows postings to and from individual as well as posts to other walls
- Filter results – magnifying glass in upper right side. 3 options
 - Subject & Friends – shows all postings
 - Subject- only posts by individual
 - Friends – removes posts by individual
- Provide info about items added or subtracted to profile



Information Tab

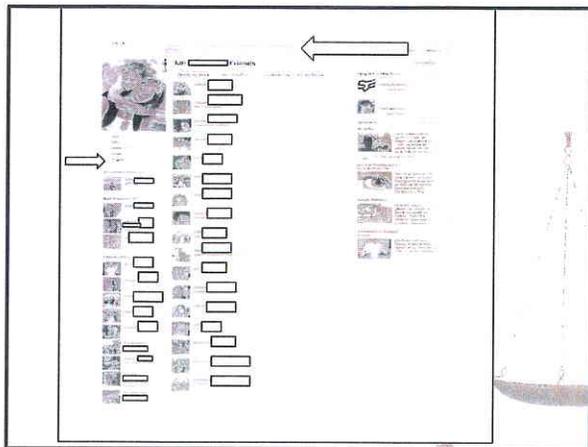
- Possible links to background info, contact info, education & work history, groups and pages
- Group & Pages- may contain posts from individual
- Education & Work- may contain link to employer showing other individuals listing the same employer





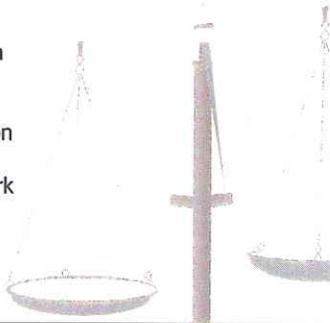
Friends

- "Friends" link is located on left hand side
- Select "See All" to view individual's friends
- Box listing all friends pops up. A search box appears in upper right hand to narrow search
- Type individual last name to search for family members, look for posting from/about or photos of individual *TIP: Holding Ctrl when clicking name opens profile in a new window
- If you have access to wall, determine friends that post regularly, review pages for information
- Search friends for any family members listed under Info Tab



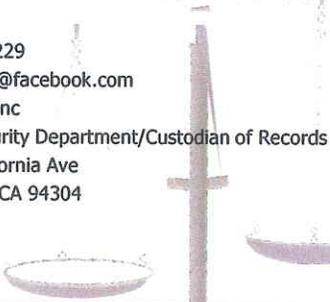
Facebook Profile

- Videos
- Notes
- Friends
- Friends in common
- Info Tab
- Basic Information
- Contact Information
- Like and Dislikes
- Education and Work
- Photos
 - Photo Albums
 - Tagged Photos
 - Profile Pictures



Facebook Subpoena Guidelines

- All requests for records must be sent one of 3 ways:
 - Fax – (650)644-3229
 - Email – subpoena@facebook.com
 - Mail – Facebook, Inc
 - Attn: Security Department/Custodian of Records
 - 1601 California Ave
 - Palo Alto, CA 94304



Facebook Subpoena Guidelines

- Types of Requests (only the following will be accepted)
 - Preservation Request – requests that identify an account by User ID, Username or email address, will preserve then-existing account records for 90 days, pending service of formal legal process
 - Formal Legal Request – requests pursuant to formal compulsory legal process issued under US law, will provide records as required by law. Response time varies depending on case complexity & records requested
 - Emergency Request – requests must be made using the Emergency Request Form and will only receive a response if we believe in good faith that serious bodily harm or death of a person may occur if we do not respond quickly

Facebook Subpoena Guidelines

- Important Considerations
 - Accounts that supply false or misleading profile information or attempt to technically or socially circumvent site privacy measures will be disabled
 - We are required to disable accounts engaged in illegal activity, even if that activity is brought to our attention through a request for records
 - If disabling or restricting user's profile will jeopardize your investigation, clearly specify "DO NOT DISABLE UNTIL XX/XX/XXXX" on request
 - By default data will be returned no older than 90 days prior to the date we receive the request. You must specify a date range or specific date if you need information outside that range

Facebook Subpoena Guidelines

- Only respond to requests that identify an account by email address, user ID or username
 - User name in this profile is "29445421":
<http://www.facebook.com/profile.php?id=29445421>
 - Group ID in this profile is "2204894392":
<http://www.facebook.com/group.php?gid=2204894392>
 - Username shown in some URL's
<http://www.facebook.com/john.smith>
- In order for username to be accepted as a valid account identifier, must supply the date when you viewed account

Facebook Subpoena Guidelines

- Possible types of data depending on formal legal process that can be provided
 - Basic Subscriber Info (User ID number, email address, date & time stamp of account creation date, registered mobile number)
 - Expanded Subscriber Content (Profile contact info, mini-feed, status update history, shares, notes, wall postings, friend listing, group listing, future & past events, video listing)
 - User Photos (Uploaded by user and tagged photos)
 - Group Info (Including the BSI of the group creator/administrator and current status of group)
 - Private Messages
 - IP Logs (very limited and frequently incomplete but when available provided in a tab delimited text file)
 - Column 1 – date of execution
 - Column 2 – Facebook user ID
 - Column 3 – IP Address
 - Column 4 – Script executed
 - Column 5 – Session Cookie



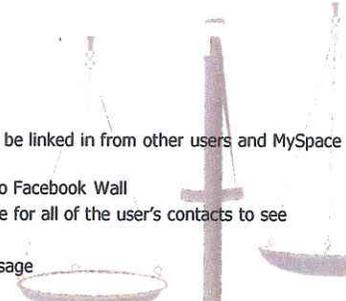
MySpace Overview

- Began August 2003
- Available to anyone 13 years old and older
- Automatic private settings ages 13-15
- August 2006, more than a million accounts



MySpace Profiles

- Moods – users can select emoticons to depict their current mood
- Background information
 - About Me
 - Who I'd Like to Meet
 - Interests
 - Relationship Status
 - Zodiac Sign
- Blogs
- Music & Videos – can be linked in from other users and MySpace Musician profiles
- Comments – similar to Facebook Wall
- Bulletins – posts made for all of the user's contacts to see
- Groups
- MySpace Instant Message
- Polls



MySpace.com

Any request for information on an account must include the Friend ID. This number is specific to a person's MySpace account and is not re-issued when an account is closed.

A person must be given access to your MySpace by password in order to go in and change anything.

A limited record of those changes are available from MySpace with a court order or subpoena. The dates and times and originating ISP's of the person making the changes is noted.

You do not have to provide your real name, DOB or address to create a MySpace account, regardless of what they tell you on the website. (This is the same with e-mail accounts from Hotmail, Yahoo.com, Juno.com, etc.)

Unless you make the MySpace website private, anyone can go in and see everything you have on your site.

Anyone can ask to be a friend and added to your MySpace website as a friend. Often, it will automatically add someone unless you deny them personally.



Tre-Tre Crip

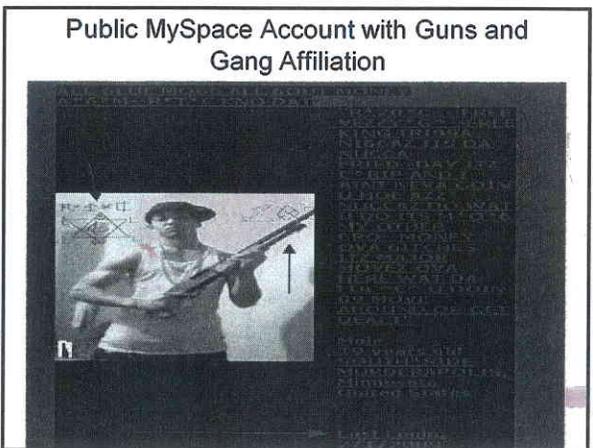


Gun on Main Page of MySpace Account



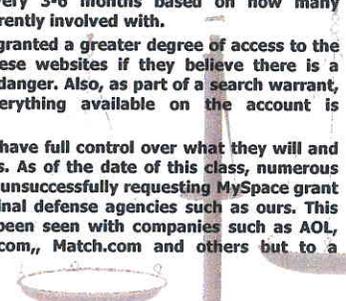






**MySpace.com
Subpoena/Court Order Overview**

- MySpace has very specific guidelines for requesting information via Subpoena or Court Order. These guidelines seem to change every 3-6 months based on how many lawsuits they are currently involved with.
- Law Enforcement is granted a greater degree of access to the information from these websites if they believe there is a threat of immediate danger. Also, as part of a search warrant, their access to everything available on the account is unlimited.
- MySpace appears to have full control over what they will and will not release to us. As of the date of this class, numerous suits have been filed unsuccessfully requesting MySpace grant more access to criminal defense agencies such as ours. This restriction has also been seen with companies such as AOL, Yahoo.com, Twitter.com,, Match.com and others but to a lesser degree.



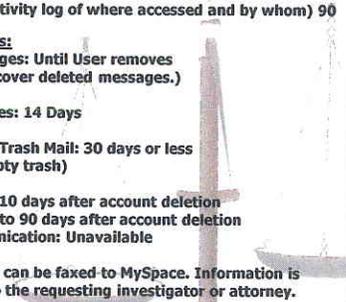
**Retention Periods For MySpace
Records**

Active Accounts:
Basic User Identity Information, stored User files, general records, data and images on an active account: Until user edits or removes.
IP Address Logs (activity log of where accessed and by whom) 90 Days

Private User Communications:
Private Inbox Messages: Until User removes (MySpace cannot recover deleted messages.)
Private Sent Messages: 14 Days
Private messages in Trash Mail: 30 days or less (if user does not empty trash)

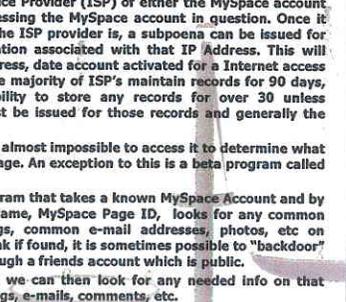
Deleted Accounts:
Profile Information: 10 days after account deletion
IP Address Logs: Up to 90 days after account deletion
Private User Communication: Unavailable

Subpoenas and Court Orders can be faxed to MySpace. Information is usually returned by e-mail to the requesting investigator or attorney.



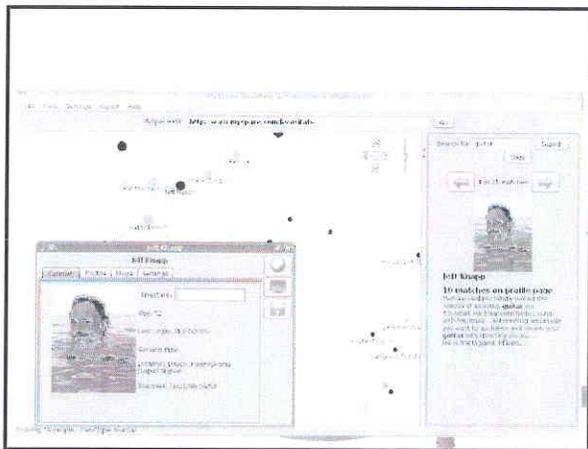
MySpace Investigative Overview

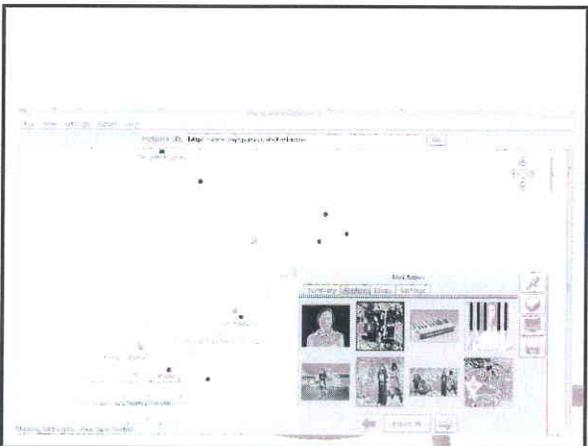
- Once the information requested is received, the investigator must then began the investigation into the MySpace data.
- If IP Logs are received, a search must be ran for IP address verification. This is usually the Internet Service Provider (ISP) of either the MySpace account, user or the individuals accessing the MySpace account in question. Once it has been determined who the ISP provider is, a subpoena can be issued for the account holder information associated with that IP Address. This will often include the name, address, date account activated for a Internet access account. Note: although the majority of ISP's maintain records for 90 days, many do not have the ability to store any records for over 30 unless requested. A subpoena must be issued for those records and generally the ISP's are very helpful.
- If an account is private, it is almost impossible to access it to determine what information is on that webpage. An exception to this is a beta program called "MySpace Visualizer".
- MySpace Visualizer is a program that takes a known MySpace Account and by using a Friend ID, Profile Name, MySpace Page ID, looks for any common links such as friends, blogs, common e-mail addresses, photos, etc on MySpace. Once a common link if found, it is sometimes possible to "backdoor" the account by entering through a friends account which is public.
- Once that access is gained, we can then look for any needed info on that webpage such as photos, blogs, e-mails, comments, etc.

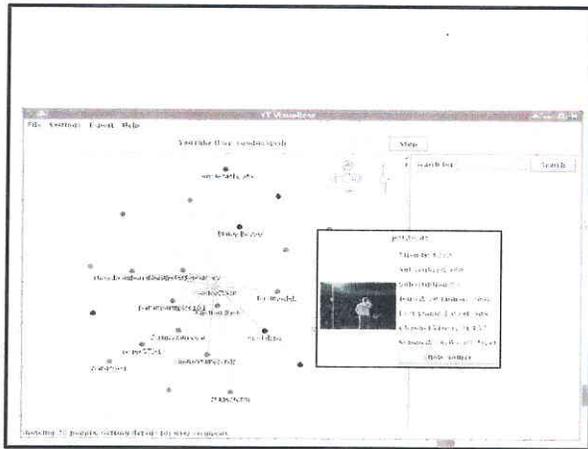


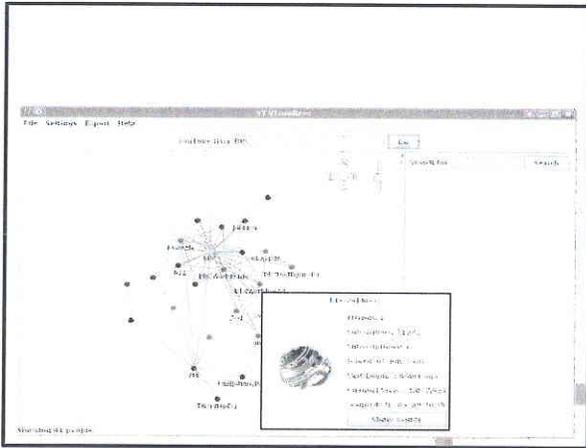
MySpace Investigative Overview

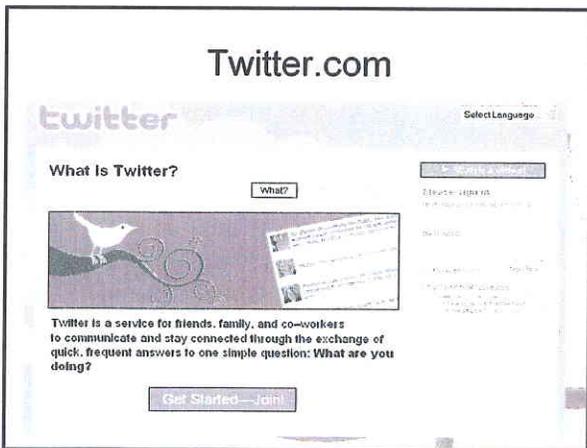
- Generally speaking, these are the items we look for on a MySpace page that could help our case:
 - **Photos:** Can be used to show relationships. On one case, we were able to show that a witness in the case was actually a rival gang member. In addition, sometimes a person's nickname is associated with their photo, showing a relationship that is denied by the client, the victim or a witness.
 - **Blogs:** The webpage owner will many times post information about an incident on their MySpace webpage. This will many times lead us to other webpages that will provide information for our case.
 - **E-Mail:** Some accounts allow public access to their e-mails so they can communicate between friends. Often by clicking on that person's e-mail account photo or link, it will take you to that person's personal MySpace account.
 - **Profile:** As in a case I worked with, our client posted very violent Hip-Hop lyrics and photos on his MySpace page. This information was used by the prosecution to try to show a tendency towards violence by our client.
 - **Activity:** the account holder might state that they were "banging with my boys at Club Cancun on Sat" when the statement given to law enforcement said he was nowhere near there.
 - **Note:** MySpace accounts are not static. By this I mean that a photo or comment on a webpage might be there Friday but gone Saturday. Therefore, if you think you need information from a MySpace page, you need to constantly check the page for any changes.
 - **Gaining access to a client's MySpace account** will often give us access to a private account if they have been given Friend status.













Twitter Overview

- Began in 2006
- Microblogging service that allows users to post "Tweets"
- Tweets – text-based posts up to 140 characters displayed on the website to "followers"
- Options of restricting access to page and limiting who can follow them

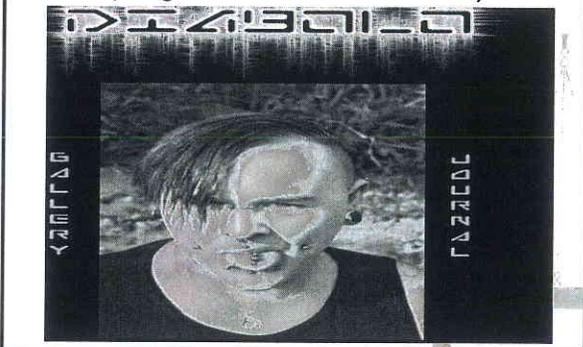
Twitter.com

- Much less activity on a general basis
- Used primarily as an alternate to e-mail and text messaging
- User list will show other contacts. These names/ID's could be used to show associations between users.
- User communication logs can be subpoenaed to show conversations between individuals.
- Unknown at this time how long logs are kept as they are still determining retention based on some current suits for harassing behavior.

VampireFreaks.com Networking Site



Diablo of Vampirefreaks.com (Registered Sex Offender)



Technical Overview of Social Networking Investigations

- You must copy any photos from the account or webpage that are relevant to your case immediately to avoid deletion. Using Hyper-Snap to copy the photos also allow you to mark the date you copied the photo and make comments on relevant items on the website.
- These files can be saved as Jpeg, Jpg, Mpeg, or other formats to be sent via e-mail to attorneys, para-legals or dispo's as needed.
- In limited circumstances, audio can be recorded from the MySpace page to be played back on a PC or via a DVD player.
- Video on a website can sometimes be copied and played back via Windows Media Player, QuickTime or Realplayer. There are numerous freeware programs out there that will assist with copying this
- In creating an account to gain access to a social networking site, it is illegal to present yourself as under the age of 18 unless you are. MySpace appears to be the only one pursuing prosecution but it is believed that will change in the near future. Access can still be gained to accounts, but often only in a limited manner.
- YouTube.com also can be searched for videos posted by a MySpace user that might allow access to a private account.



Social Networking Gang Association

- The following slide shows guidelines that have been used by Minneapolis PD, Minnesota Gang Strike Task Force and other State and National Law Enforcement Agencies to show Gang Involvement:
- Many times investigators and forensic staff will access a MySpace or Social Networking Website with the intent of showing a relationship. Note how many criteria could lead to an allegation of Gang or organized crime association.
- This is again a reason to copy all photos and data on a webpage. Many times an account holder will delete information not realizing law enforcement has already made copies of the information.
- Another concern is a friend with password access going into the website and adding data or photos after law enforcement have began their investigation. Tell your client to not change anything on their account until your case is done. They should not create new accounts as these could also be accessed by search warrant by LEO.
- Note how innocent items such as photos, songs, e-mails can all be obtained from MySpace or another social networking site to be used against your client.
- In a prior homicide case our client had numerous gang photos on his MySpace site. These photos included groups of verified gang members in numerous photos with out client. Our client also had a photo of himself holding a firearm which was also used by the prosecution. The prosecution attempted to use that info to allege gang involvement by our client.

INDICATORS OF GANG INVOLVEMENT

Must meet 3 criteria to be identified as a gang member (per Capt. Mike Martin, MPD)

- Self Admission
- Associates regularly with gang members
- Has Tattoos with gang signs or symbols
- Clothing with known gang signs or symbols
- In a photograph with gang or using hand signs
- Name is on a gang document, list or graffiti
- Identified by a reliable source (police, teacher, parent)
- Arrested with known gang members
- Corresponds with gang members or about gang activity
- Writes about gangs on walls, books, papers, MySpace, etc.

Case Study

Step 1

Chose Keywords – Twitter Search

Case Study

Step 2

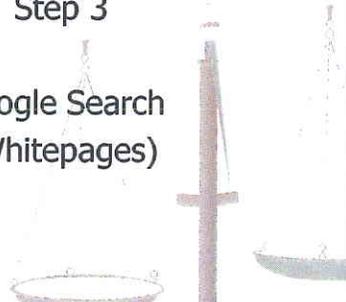
Check Twitter Profile

A faint background image of a wooden scale of justice with two pans hanging from a central beam.

Case Study

Step 3

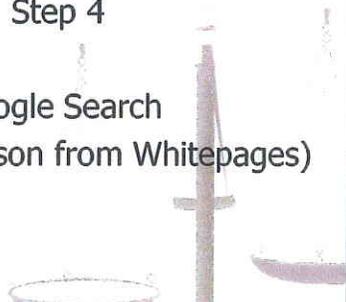
Google Search
(Whitepages)

A faint background image of a wooden scale of justice with two pans hanging from a central beam.

Case Study

Step 4

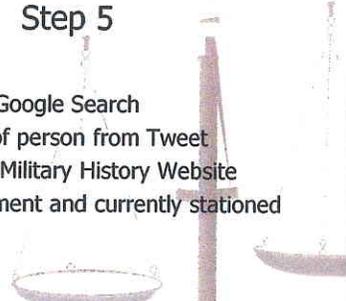
Google Search
(Name of Person from Whitepages)

A faint background image of a wooden scale of justice with two pans hanging from a central beam.

Case Study

Step 5

Google Search
Name of person from Tweet
Review of Military History Website
Identified regiment and currently stationed

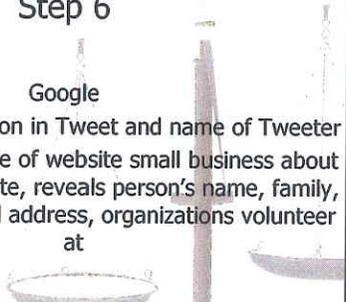


Case Study

Step 6

Google

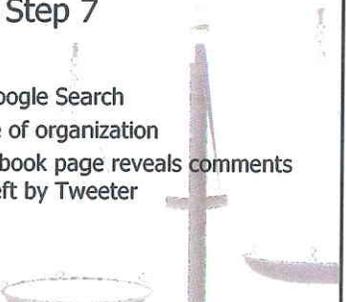
Action: Name of person in Tweet and name of Tweeter
Result: Reveals profile of website small business about us section of website, reveals person's name, family, information, e-mail address, organizations volunteer at



Case Study

Step 7

Google Search
Name of organization
Result: Public Facebook page reveals comments left by Tweeter

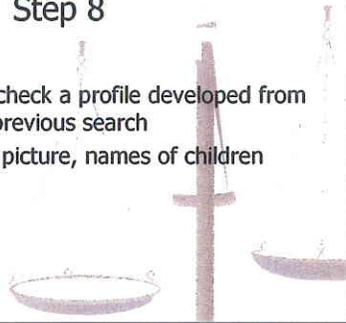


Case Study

Step 8

Go to Facebook – check a profile developed from previous search

Result: Family picture, names of children



Case Study

Step 9

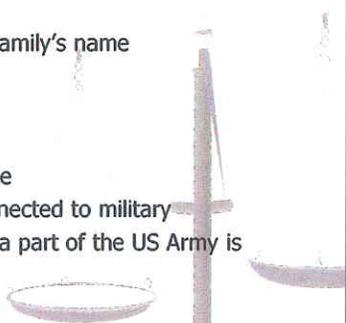
Identify various family members from Facebook
Mother's Facebook profile public – more pictures

Reveal wife's maiden name



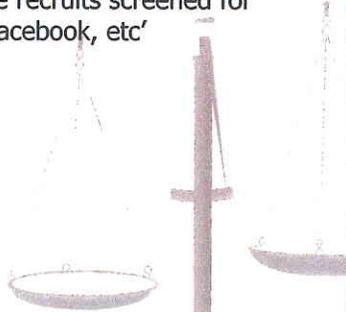
Case Study Findings

- One tweet
- Known an entire family's name
- Location
- Address
- Contact details
- What they look like
- How are they connected to military
- Potentially where a part of the US Army is coming under fire



Thinking Outside The Box

Headlines – Police recruits screened for digital dirt on Facebook, etc'



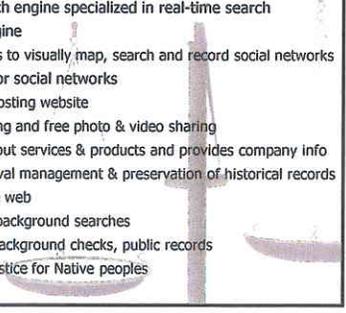
Thinking Outside The Box Investigative Resources

- Searchenginewatch.com – news & info about search engines and marketing
- Googleguide.com - interactive online tutorial on using the search engine
- Google Alerts – change detection and notification service
- Google Image Search – search engine for images on web
- Google Maps – web mapping service application
- Exalead.com – provides search platforms & search-based applications for consumers & business users
- Ebay.com – online auction & shopping website
- Archive.org – provides info on family history & genealogy
- Zoominfo.com – search engine focused on people, companies & relationships among them
- Guidestar.org – provides nonprofit's recent IRS Form 990
- Blog.com – website to post and follow blogs
- Typepad.com – premier blogging service
- Journalspace.com – free hosting and software for a journal or blog
- Xanga.com – website to blog, share photos & videos and meet friends



Thinking Outside The Box Investigative Resources

- Livejournal.com – website for users to share common passions & interests
- Technorati.com – search for user-generated media by tags or keywords
- Icerocket.com – internet search engine specialized in real-time search
- Dogpile.com – web search engine
- Lococitato.com – provides tools to visually map, search and record social networks
- Yoname.com – name search for social networks
- Flickr.com – image and video hosting website
- Photobucket.com- image hosting and free photo & video sharing
- Kodak.com – consumer info about services & products and provides company info
- Archives.gov – info about archival management & preservation of historical records
- Pipl.com – people search on the web
- Dirtsearch.org – provides free background searches
- Radaris.com – people search, background checks, public records
- Tribal-institute.org – info on justice for Native peoples



Thinking Outside The Box Investigative Resources

- Atfonline.gov/flezcheck – Federal firearm license search
- Atf.gov/most-wanted – ATF most wanted
- Fbi.gov/foia/foia-instruc.htm – FBI Records Search
- Usdoj.gov – United States Department of Justice
- Cyndislist.com – genealogy research site
- Ancestry.com – genealogy research site
- Melissadata.com – provides US & global address verifications & address updates
- Corrections.com – Comprehensive news site dealing with prison & parole issues
- Bop.gov – Statistical data on Federal prison population by gender, race, age, etc
- Inmatelocator.com – inmate searches and prison info
- Searchsystems.net – free public records directory
- Vinelink.com – national victim notification network
- Topix.com – local news and discussion forums by cities
- Archives.gov/veterans/military – US National archives and record administration

Thinking Outside The Box Investigative Resources

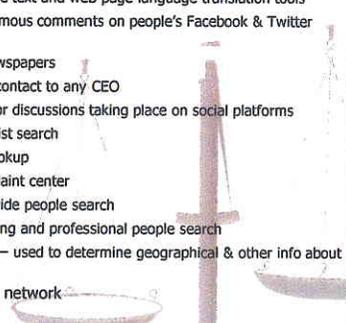
- Weatherunderground.com – weather info for worldwide locations
- Vitalchek.com – provides Government certified public records
- Argali.com – online telephone directory
- U.S. Post Office Request for Change of Address- provides address verification and new address information
- PRRN.com – free public record site
- BRBPubs.com – free public records directory
- Resourceshelf.com – librarians/researchers share results of web searches
- Namefromphone.com – provides phone number searches
- Blackbookonline.com – free public records searches
- Peekyou.com – people search engine to contact and find anyone online
- Spokeo.com – people search engine
- Knowern.com - social network username check
- Anywho.com – phone number lookup and people search

Thinking Outside The Box Investigative Resources

- Classmates.com – high school classmates & alumni search
- ALMexperts.com – expert directory
- Experts.com – expert witness and consultant search
- Expert4law.com – expert witness directory
- Findarticles.com – article search
- Blogdigger.com – blog search engine
- Lawguru.com – free legal advice and law answers
- Law.com – legal news and info network for attorney's & other legal professionals
- Networksolutions.com – find domain names, web hosting & online marketing for your website
- FINRA – Broker Check
- Ckfraud.org - Nation Check Fraud Center

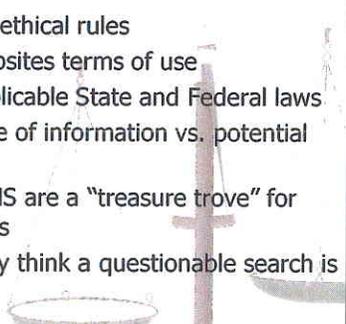
Thinking Outside The Box Investigative Resources

- Yahoo Babel Fish – free online text and web page language translation tools
- Abouteveryone.com – anonymous comments on people's Facebook & Twitter pages
- Newspaper.com – info on newspapers
- Contact-the-ceo.com – free contact to any CEO
- Omgill.com – search engine for discussions taking place on social platforms
- Searchtempest.com – craigslist search
- Zipinfo.com – free zip code lookup
- Ic3.gov – internet crime complaint center
- Kgbpeople.com – free worldwide people search
- Buddyfetch.com – friend, dating and professional people search
- Maxmind.com/app/ip-locate – used to determine geographical & other info about internet visitor in real-time
- Maktoob.com – Arabic social network



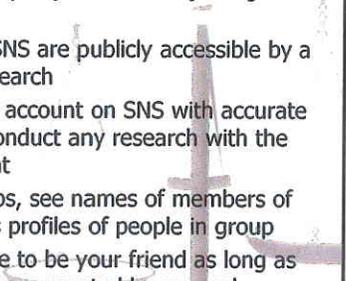
Ethical Considerations

- Be aware of the ethical rules
- Comply with websites terms of use
- Comply with applicable State and Federal laws
- Must weigh value of information vs. potential risks
- Don't assume SNS are a "treasure trove" for discovery process
- This mindset may think a questionable search is justified



Ethical Considerations

- Can access publicly available information on internet viewable by anyone without joining a site or logging in
- Many profiles on SNS are publicly accessible by a standard Google search
- You can create an account on SNS with accurate information and conduct any research with the use of that account
- You can join groups, see names of members of groups and access profiles of people in group
- You can ask people to be your friend as long as that person is not represented by counsel



Ethical Considerations

- A client or third party member may provide with information (printouts, profile pages, messages, photos, etc.)
- Do not misrepresent yourself or develop a fictitious profile page

