

The Social Map

Johnny Deutsch Hacktics Advanced security Center



Who are you?





Consultant for the MoD



Heads up HASC's Cyber Research Practice



A Scotch lover (Laphroaig...)









EY Advanced Security Center



Our Advanced Security Research Team:



- Former Military Intelligence outfit.
- Acquired by Ernst & Young (Jan 2011).
- Currently the largest IT security center in Israel – over 35 consultants.

Selected vulnerabilities published within the last two years

- Adobe: ColdFusion (CVE-2011-2463, CVE-2011-4368).
- ▶ IBM: WebSphere (CVE-2010-0714).
- Microsoft: SharePoint (CVE-2010-0716).

<u>Planned:</u>

- Polycom: DoS.
- InsightX: NAC Bypass.
- Oracle: eBusiness.





So, let's be social :

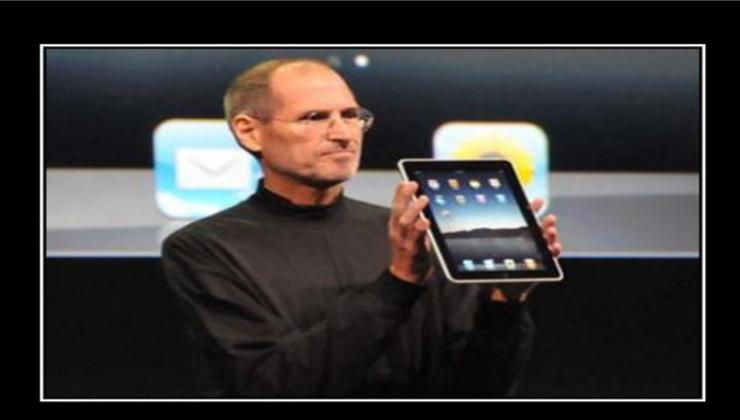
The side effect of information security – Marketing.

Facebook and You !





Marketing - The side effect of info-sec that we don't talk about



WORST PRODUCT NAME EVER

Proof that there are no women involved in the big decisions at Apple.





Marketing - The side effect of info-sec that we don't talk about

Isn't this what the marketing department is all about ?
 In an ideal world – yep.

And again, why us ?

Hardening you server, is clearly Info-Sec – right ?

But what about hardening your brand's Facebook page ?





What harm can come my way ?

Did you ever see a commercial of your competing bank inside the bank ?

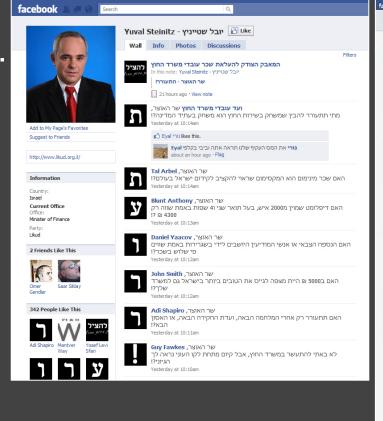






So your not that popular ...

Controlling IT.





I ERNST & YOUNG

Quality In Everything We Do



Enough with marketing. Moving on...





What organizations need to know about it.

It can hurt the individual as well ... but you know







Let's put things into context

There is a lot of hype on APT's.

- You always hear of "advance intelligence gathering methods", Why ?
 - Technical information (infrastructure, client side applications...).
 - Who's he attacking.
 - The "why" is not relevant any more it's money

I'm an advanced persistent threat





Organizations tend to think that there is only one issue with social networks:







There's no patch for human stupidity !









Client side disclosure

Sticks and bones may break my bones, but words …



Brendan



I think I hate lotus notes more than I hate the Manning family. Every day, the environment is not protected as well as it should be because 17,000 employees have to contend with an out of date, crash-prone, nonsensical email system that I'm pretty sure was designed as a practical joke then sold at bargain basement prices to secure government contracts.

ihatelotusnotes.com

Whew. Feel better already.

The Social Map

Share • February 23 at 3:39pm near

• @





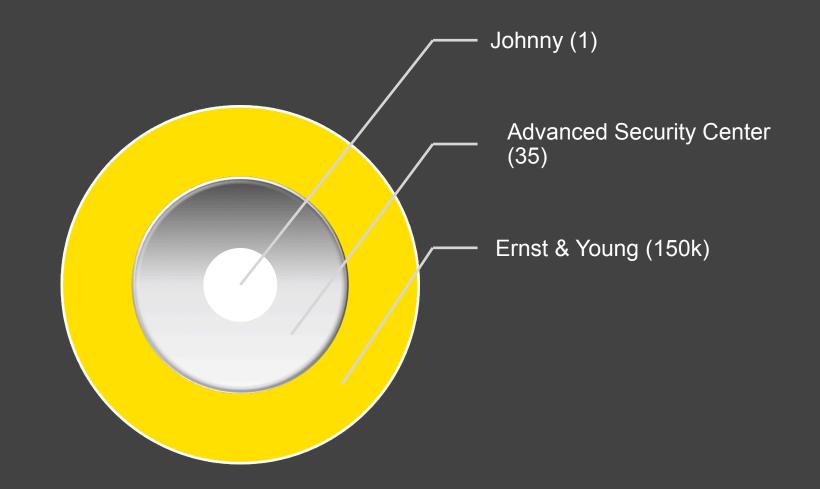
Multiple ways of attacking your target...

But an art of itself is knowing how to aim your spear !





What's the problem ?









Simulate a real world attacker

Has some but not all of the needed info

He knows Johnny

He knows that he works at Ernst & Young

What's available to him ?



Page 17





Google hacking ?

site:facebook.com "Works at" + "Ernst & Young" + "yonni"

Small indexing war prevents this...







Maybe the Harvester ?

- Google emails,subdomains/hostnames
- Google profiles Employee names
- Bing search emails, subdomains/hostnames,virtual hosts
- Pgp servers emails, subdomains/hostnames
- Linkedin Employee names
- Exalead emails,subdomain/hostnames

But it doesn't really help us here



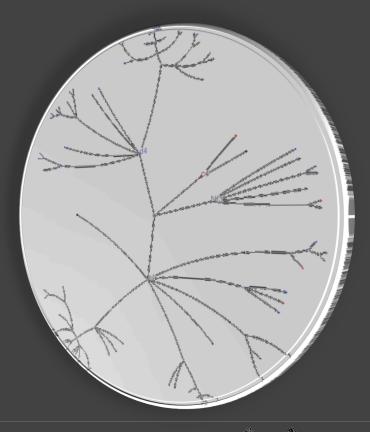


Ever heard of TouchGraph ?



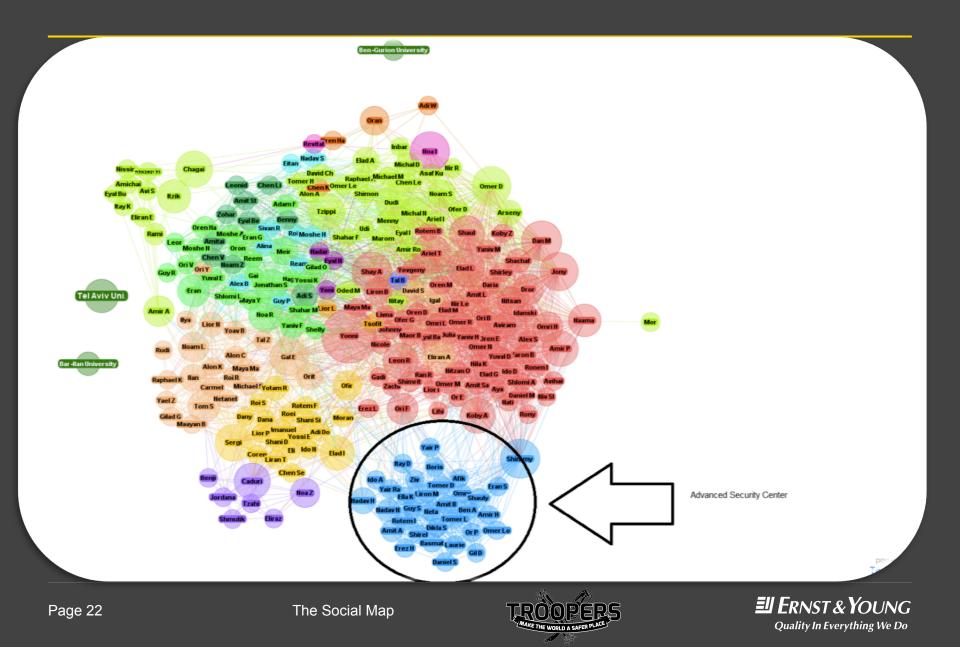


Basically a Hyperbolic tree of your Facebook account.





And it looks like this :



Found it !

Not really, That's cheating …

Cuz it's my own profile ….



CHEATING



ERNST & YOUNG Quality In Everything We Do

How does TouchGraph do it ?

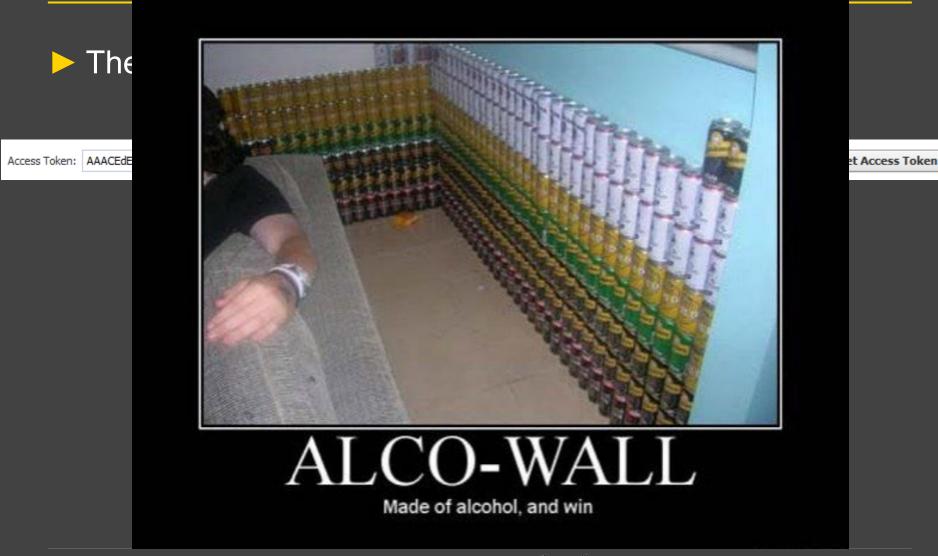
Graph API Explorer Home > Tools > Graph API Explorer	Application: [?] Graph API Explo
Access Token: AAACEdEose0cBANSax1CXVol4jbnVlV8ZCES2kgZBY71LakZC1Uyz2AYcHZA	× ⊂ Get Access T
GET https://graph.facebook.com/618573274	Sub
<pre>{ "id": "618573274", "name": "Yonni Deutsch", "first_name": "Yonni", "last_name": "Deutsch", "link": "http://www.facebook.com/yonni.deutsch", "username": "yonni.deutsch", "birthday": " ", "work": [</pre>	Connections accounts activities adaccounts albums apprequests books checkins events family feed friendlists friendrequests friends gan groups home inbox interests likes links movies music mutualfriends notes notifications outbox payments permissions photos picture posts scores statuses tagged television updates videos
<pre>{ "employer": { "id": "109575439061060", "name": "Ernst & Young" }, "start_date": " }], "gender": "male", </pre>	Fields id The user's Facebook ID. No `access_token` required. `string`, name The user's full name. No `access_token` required.`string`, first_name
<pre>"timezone": 2, "locale": "en_US", "verified": true, "updated_time": "2012-02-15T08:34:26+0000", "type": "user" }</pre>	The user's first name. No `access_token` req `string`. middle_name The user's middle name. No `access_token` required.`string`. last_name The user's last name. No `access_token` requ `string`.







So what's the issue here?





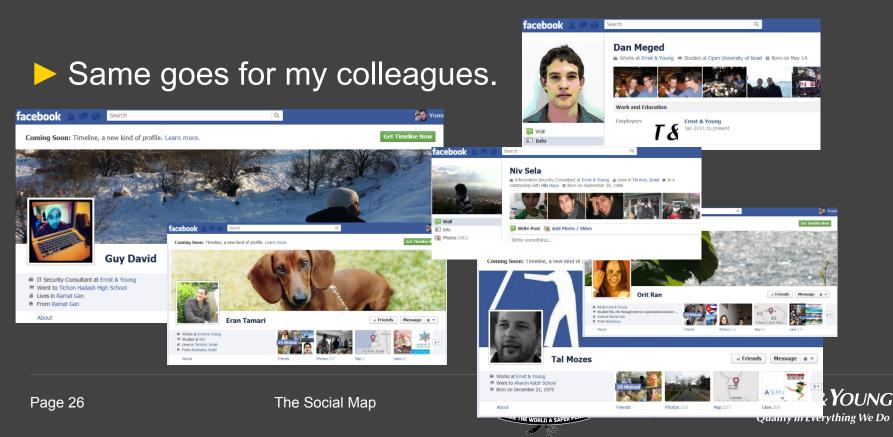


So how do we get it ?

There's my profile page.

My workplace is listed.







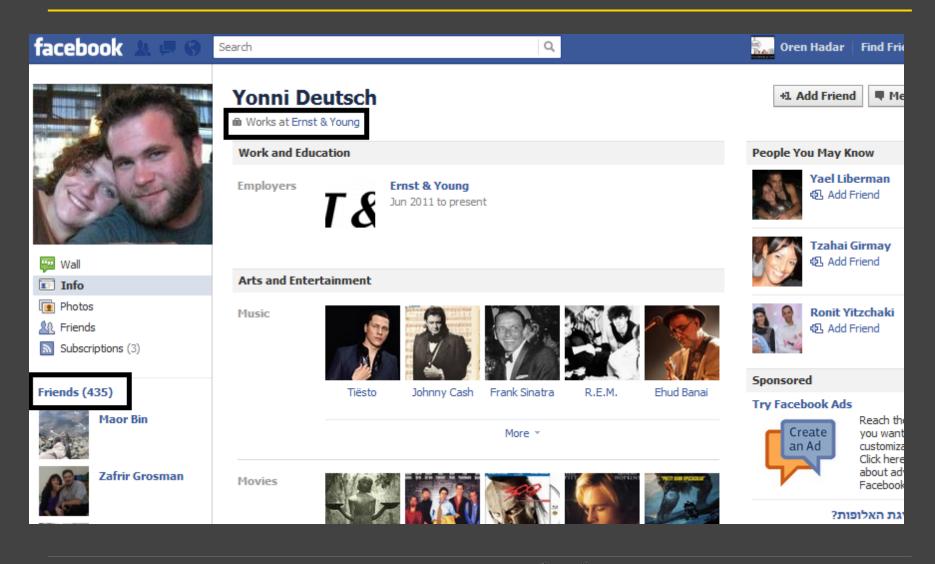
We do it ourselves ?







So lets fish...







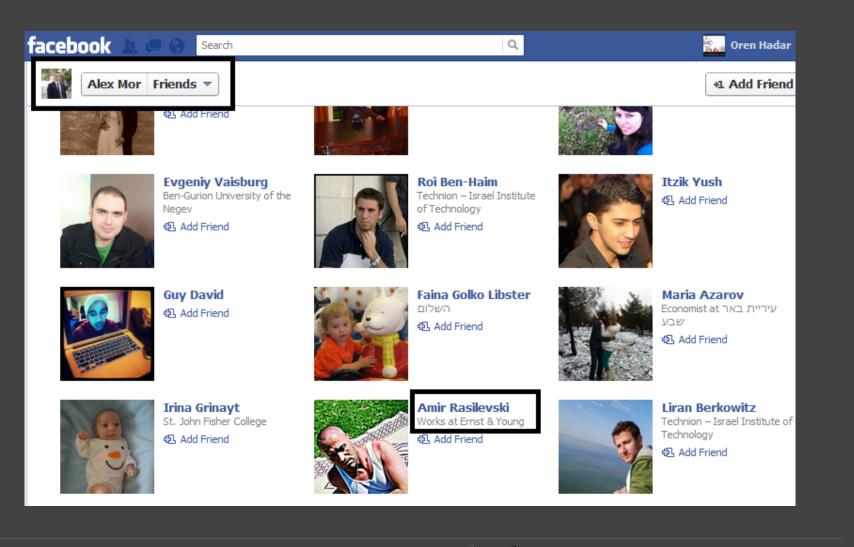
So lets fish...







So lets fish...

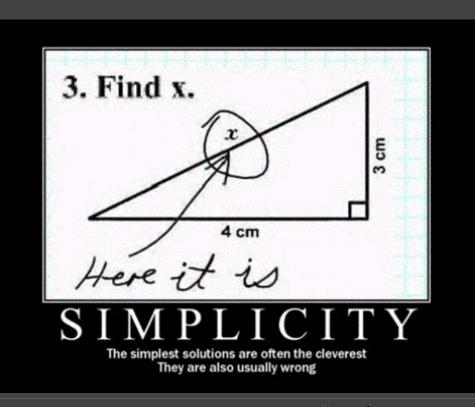




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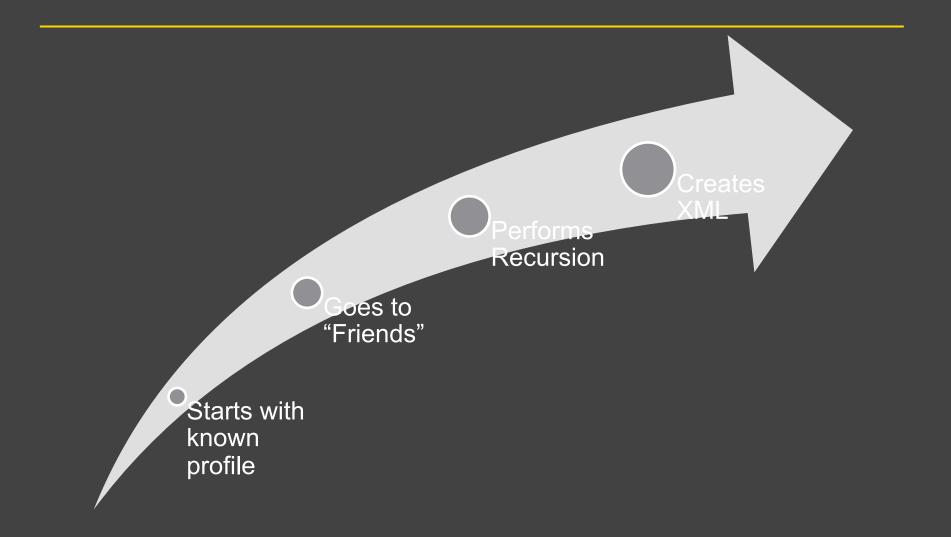
Sometimes, the simplest way of solving a problem, is the first one that comes to mind.







FB Crawler in a nutshell









Meet FB Crawler







Next Steps

Not yet graphical.

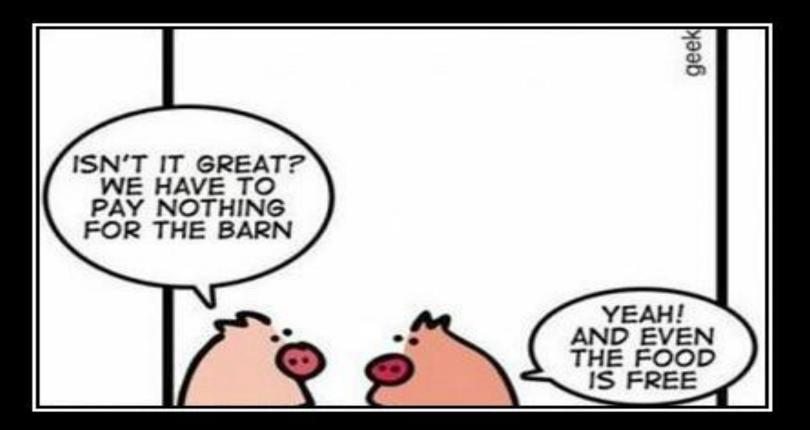
We do use it internally and to raise awareness.

Liability Issues.

Do you know what your employees are saying ?







FACEBOOK & YOU

If you're not paying for it, you're not the customer. You're the product being sold





