Evil on the Internet

Dr Richard Clayton



Sheffield IET, SHEFLUG, BCS 9th September 2010



Outline

NB: these slides were prepared in case the live demonstrations of the wicked websites were unavailable on the day. People are trying to get them removed!

- Phishing websites
- Mule recruitment
- Fake escrow websites
- Fake pharmacy websites
- Fake banks
- Made for Adwords
- Post-modern ponzi schemes

The criminal ecosystem

- Botnets key part of criminal infrastructure
 - send email spam, host fast-flux website, used for DDoS attacks
- Botnets are believed to be mainly built by "drive-by" malware
 - eg: email drives traffic to sites where "new" flash player needed
 - also by "worms", email attachments etc
- "Underground economy" handles sales of goods
 - runs open-outcry on easy-to-find network of IRC servers
 - allows criminals to specialise (cf Adam Smith's pin factory)
 - trust built by consistent use of "handle" ("rippers" not tolerated)
 - samples available for first time purchasers (a big PR issue)
 - cyberspace means that traditional police techniques limited
- Phishing kits deskill deployment of phishing websites
 - "free" kits have complex backdoors to leak stolen data to builder

What is phishing?

- Capture of user credentials through impersonation
 - In 1996 this was pretending to be an AOL sysop
 - since 2003 has been the creation of fake bank websites
- "Bank" is merely generic attackers impersonate auction sites, payment processors, online games, Habbo, IRS etc, etc
 - common theme is that credentials are worth money
- Losses often quoted as over \$2 billion/year
 - Ioss figures are scaled up from phone interviews
 - Gartner figures included lottery fraud scams
 - UK banks lost £53million in 2008 (£20m-30m in previous years)
- Phishing rare in Germany attacks are mainly keyloggers
- Some markets use 2-factor (TANs, CAP, SecureID etc)
 - just means that attacks must be done in real-time

Types of phishing website (Jan 2008)

- Misleading domain name (unusual at present)
 http://www.banckname.com/
 - http://www.bankname.xtrasecuresite.com/
- Insecure end user or machine

(76% of sites)

http://www.example.com/~user/www.bankname.com/
http://www.example.com/bankname/login/

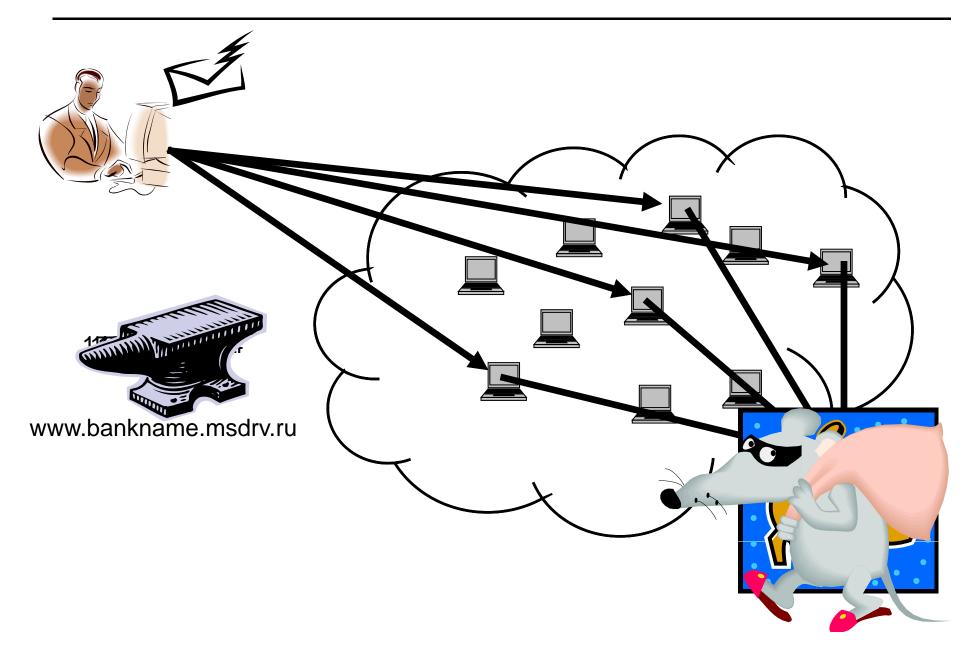
Free web hosting

(17% of sites)

http://www.bank.com.freespacesitename.com/

- Specialist attackers
 - distinctive patterns, often rely on wildcard DNS
 - figures only meaningful after canonicalisation
 - rock-phish 4%, fast-flux 1.4%, "ark" 1.4%

Fast-flux phishing sites

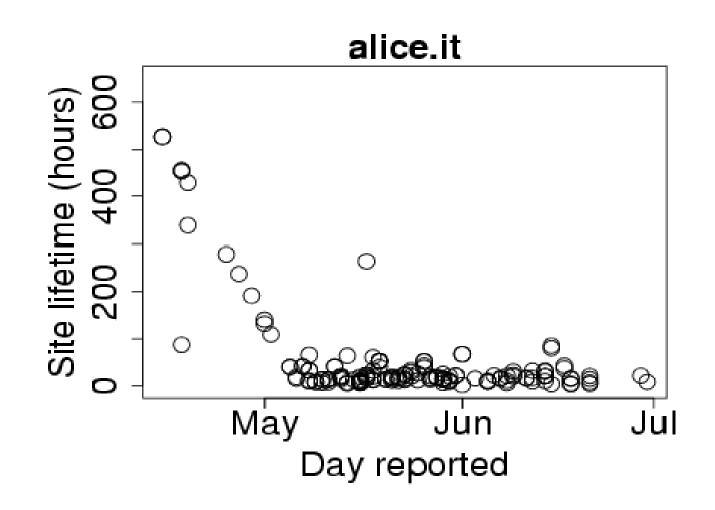


Take-down time measurements (Jan 2008)

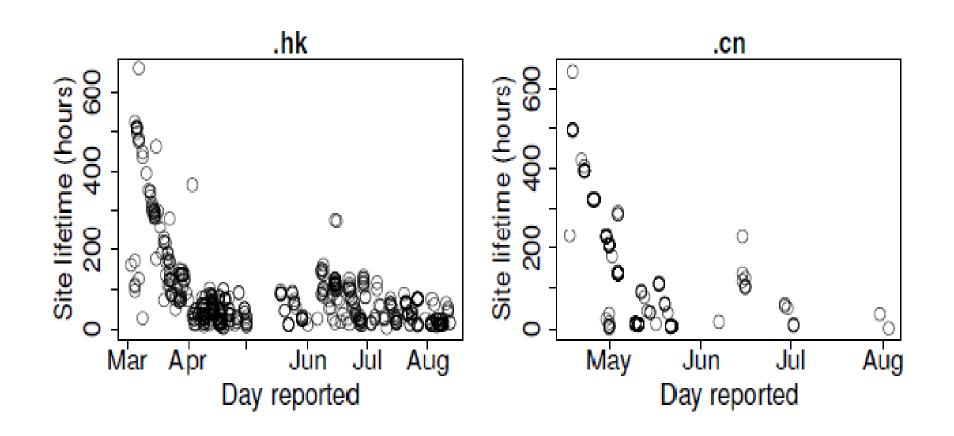
	Total	Mean (hours)	Median (hours)
Free webhosting	395	48	0
when brand owner aware	240	4.3	0
when brand owner unaware	155	115	29
Compromised machines	193	40	0
when brand owner aware	105	3.5	0
when brand owner unaware	155	104	10
Rock-phish domains	821	70	33
Fast-flux domains	314	96	25

Why are brand owners "unaware"

- Most brand-owners outsource take-down to specialist "brand protection" companies
- These companies compete not only on removal times, but also on how many websites they know of ("the quality of their feed")
- They get data from "industry" lists (APWG etc) and also from their own spam-traps (old domains, honeypots etc)
- So if Bank X hires company A, but only company B knows about the phishing site then it isn't removed
- However, as neutral academics we get data from both A and B, we know of the site and measure its (rather slow) removal
- We recommend industry-wide data sharing; the companies buying services from the competition as well!



Registrars can also have a "clue" issue



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 Get work done below budget and make profit

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Enter to partners area.						
Login: *						
Password: *	Login					
Registration	Forgot password?					

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Status: Open

Employee Type: Part-Time Employee

Number of employees required: 3

Candidate Requirements:

- not less than 18 years old
- internet access
- availability by phone (1-2 hours a day)
- a bank account to process payments
- · good credit history with your bank (new bank account is optional)
- · no criminal offense or convictions
- · experience in the field of finance is preferred

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Authorization



Login: *	
Password: *	Login

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Forgot password?

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- → <u>although will consider</u>) 04 February 2010
- → <u>MODx Revolution Shopping Cart Freelance</u> 04 February 2010
- Web Designer for Industrial Website
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- Experienced Wordpress/PHP Developer
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a new employee will be trained and receive online support while working and being paid. A personal supervisor can recommend termination during/after the trial period depending on agent's activity. New employee should be responsible and strictly follow supervisor's recommendations to pass the Probationary Period successfully and be employed by us on a regular basis.

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IMPORTANT DETAILS

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 moment of money entering their bank account to the moment of re-send to our client in accordance with
 contract terms. If money enters employee's account on a day-off or holiday, all payment processing
 procedures have to be completed during the next working day.
- Payment Processing Agents receives invoices for each transaction every 14 days. This document is a
 confirmation of transaction validity and in case of any (if any at all) unforeseen circumstances it will
 evidence your personal non-participation. All invoices will contain detailed information on money sender and
 will be both sealed and certified with President's signature.
- After the Probationary Period completion, invoices will be sent every business day.
- Since business transfers can be processed with delays, Payment Processing Agents should specify each transfer as a private transaction. This provision is also applicable in case of a third party interest in the transfer.

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Featured Analytics

Eastern Europe Makes Its Presence Known on the Global IT Scene

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Partners

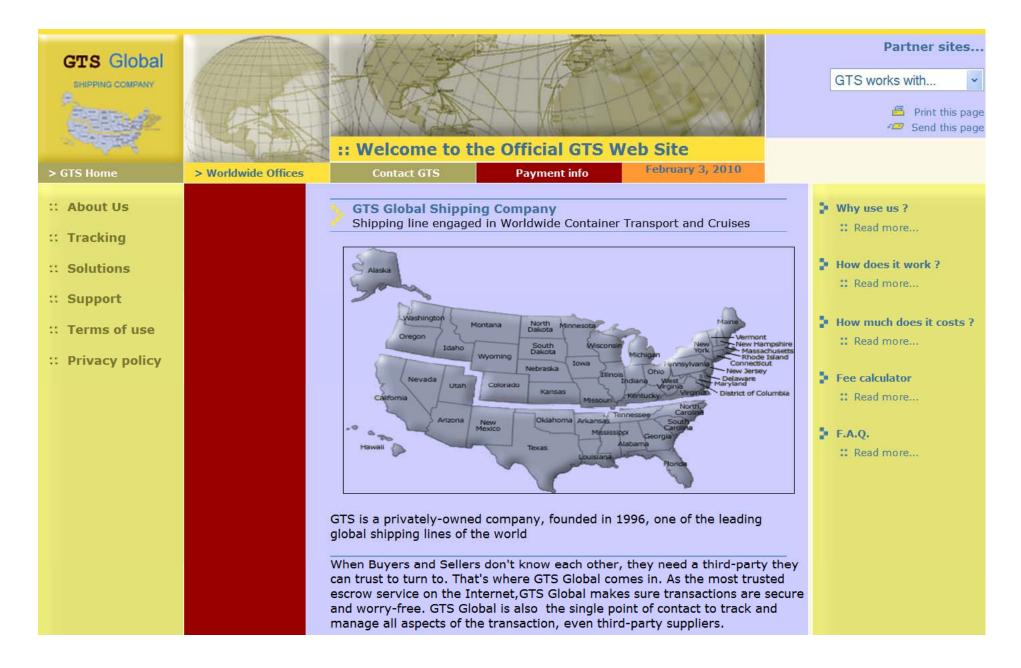
Mule recruitment

- Proportion of spam devoted to mule recruitment shows that this is a significant bottleneck
- Trend towards avoiding websites, but relying on email drop boxes instead
- But before that were often using web sites
- Aegis, Lux Capital, Sydney Car Centre, etc, etc
 - mixture of real firms and invented ones
 - some "fast-flux" hosting involved
- Only the vigilantes are taking these down
 - impersonated are clueless and/or unmotivated
- Long-lived sites are even indexed by Google

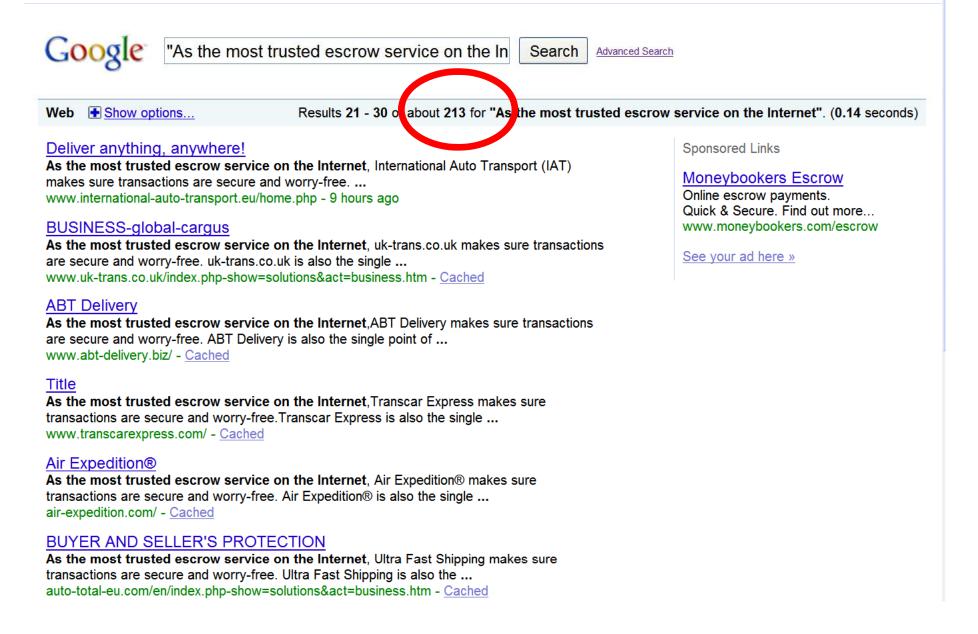
Mule recruitment site takedown is slow!

"Company"	Real	Period	Sites	Mean	Median
Lux Capital	\checkmark	Mar-Apr 07	11	721	1050
Aegis Capital	✓	Apr-May 07	11	292	311
Sydney Car Centre	×	Jun-Aug 07	14	171	170
Harvey Investment	\checkmark	Sep-Oct 07	5	239	171
Cronos Investment	×	Oct-Nov 07	12	214	200
Waller Truck	\checkmark	Nov-Feb 08	14	237	3

http://www.gts-global-delivery.com/index.htm



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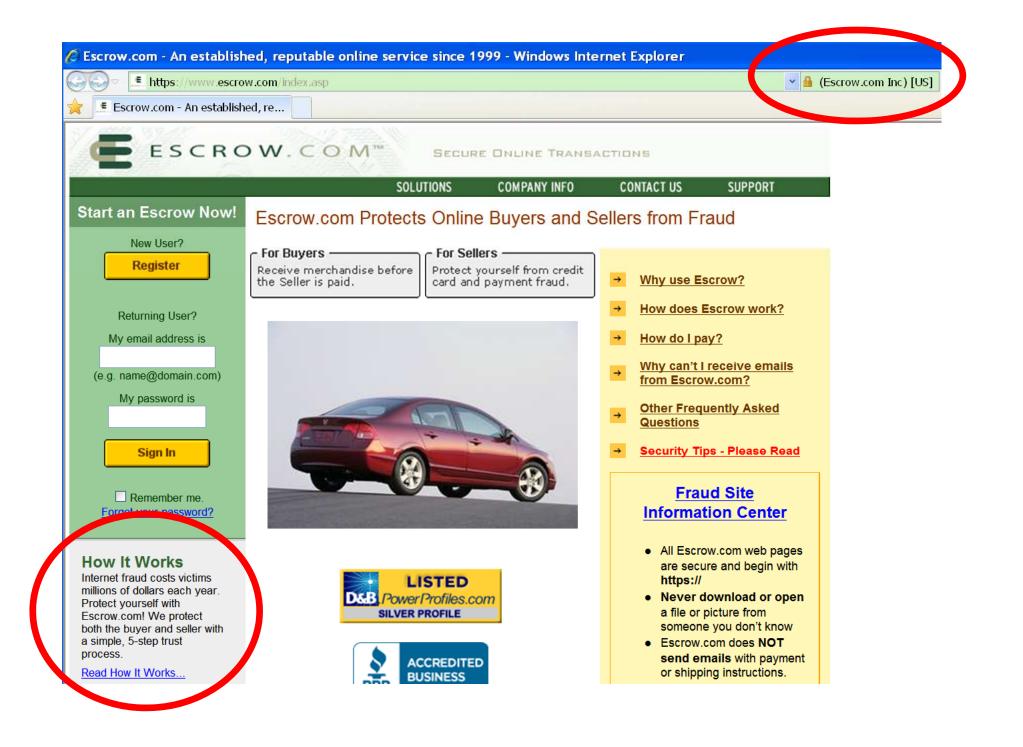
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Escrow.com: Vehicle Services

We protect both the buyer and seller with a simple, 5-step trust process. The Buyer can



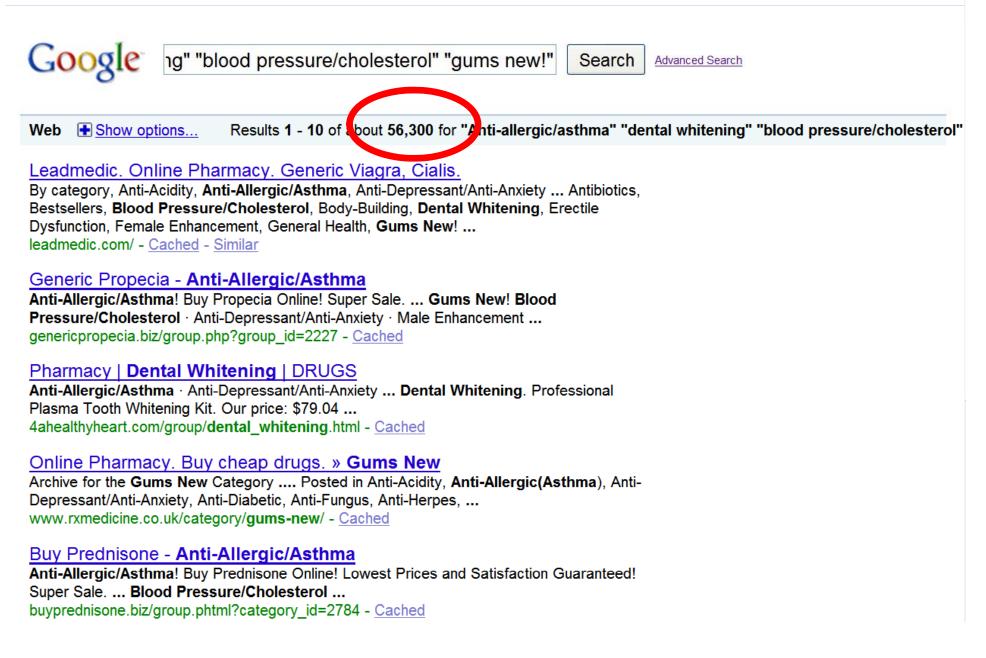
Fake escrow sites

- Dozen+ sets of sites used for auction scams
- Typically half a dozen victims a week, but profit is the price of a second-hand car or motorcycle!
- Tracked by "AA419" and taken down by amateur "vigilantes"
 - monitored take-downs during Oct-Dec 2007
 - 696 sites, 222 hours, 24.5 median
- Have tried (2007) searching for 81 unusual phrases
 - average of 9.8 domains/phrase, 2.4 known to AA419
- Many of these phrases still work just as well today
 - Websites often claim copyright from 1996, may mean it!



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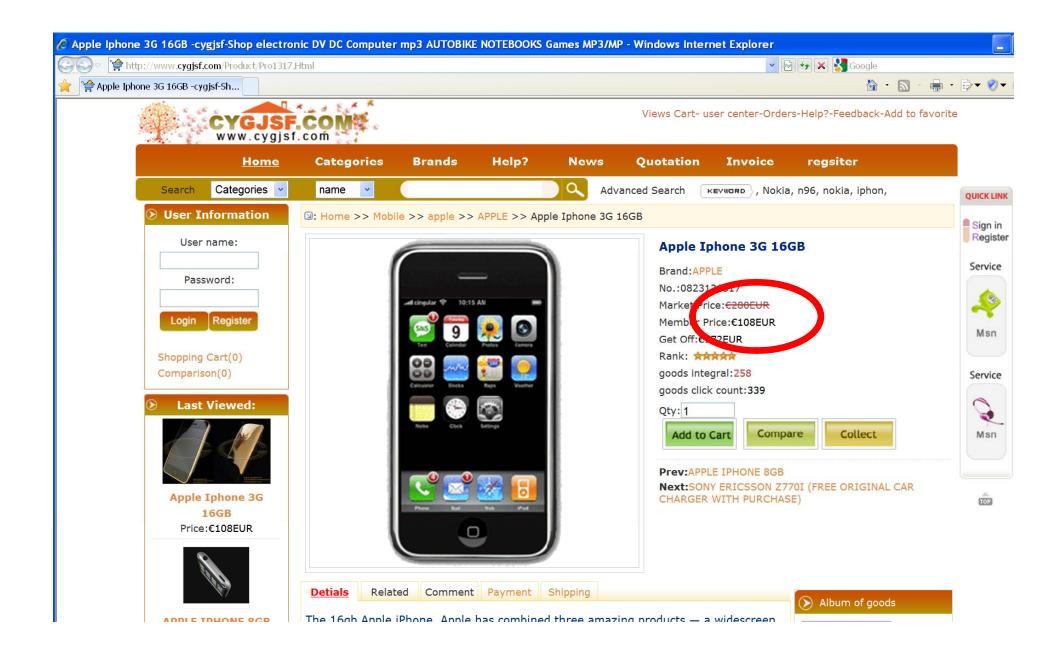
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Gast dinsdag 9 jun 2009, 11:29

Ik zou daar niets van kopen als ik u was. zo'n sites heb ik nog gezien. ga eens kijken naar de moto's. op die site (www.cygjsf.com) een suzuki R6 aan 2100 euro die afgeprijst is tot 1750 euro bestaat niet (zo een moto kost 10 000euro)Je kan niet eens via paypall bestellen dus da zegt genoeg ;) Western union is niet gemaakt om online te kopen. ;)

Dit antwoord is als volgt beoordeeld: 0



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Gast zaterdag 24 okt 2009, 17:00 venerdì 15 maggio 2009

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Pubblicato da Francesco a 7.38

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Pills, Penises and Photography

- Canadian Pharmacy &c
 - has been hosted on same fast-flux pools as some of the phishing sites. Links between the gangs remain unclear
- Sites have fake credential pages
 - requires some knowledge to see why they are fake
- Google picks up a proportion of these sites, but by no means all
 - often fairly long lifetimes (think "months")
- Lots of variants, but key phrases in common
- Some fake shopping sites, which fool some reputation systems, though Google searches often show complaints on the first page
 - "if it's too good to be true, it probably isn't true"

Nation Buildingwide Bank

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We aspire to be one of the most admired financial services organisations in the world, recognised as an innovative, customer-focused company that delivers superb products and services, ensures excellent careers for our people and contributes positively to the communities in which we live and work. What we'll do

Our long-term strategy is to remain a financial services company. We will continue to grow in Europe, and build our business in retail and commercial banking outside Europe, with a bias towards Continental Western Europe. We will develop our services and products for wealthy customers, and we will build our global businesses, such as investment banking and credit cards.

How we'll do it

Our strategy also determines the way in which we will achieve our goals. This includes the way we're organised, our management beliefs and practices, and the way we behave towards our customers and each other. Foremost among our practices is the use of a management framework that shapes the way in which we make business decisions, and ties all of our planning and operations to the creation of economic value.

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Find out more

Find out more

Fake banks

- These are not "phishing"
 - So no-one takes them down, apart from the vigilantes
- Pattern of repeated phrases/addresses on each new site
 - so googling finds more examples
 - sometimes old links left in (hand-edited!)
- Sometimes part of a "419" scheme
 - hard to put dictator's \$millions in a real account!
- Or sometimes part of a lottery scam
 - your winnings are deposited in an interest bearing account...
 - ... unfortunately you have to pay for opening it!





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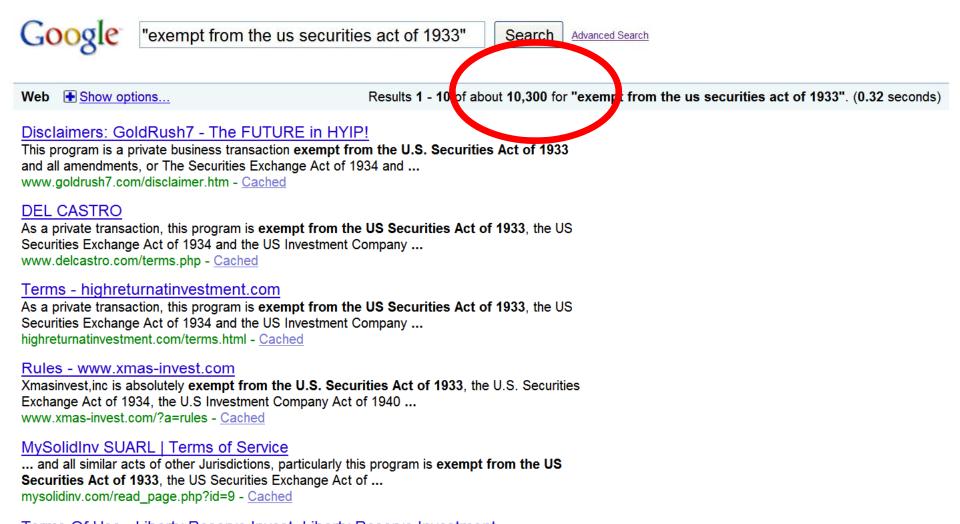
Our status	NOT PAYING
Online	120 days
Listed	120 days
Started	8 Oct 2009
Added	8 Oct 2009
104-110% after 1	day
108-120% after 3	days
115-140% after 5	days
120-160% after 1	week
130-200% after 1	week
Deposit Min	\$ 5
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Referral bonus	1-8%
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Post-modern Ponzi schemes

- High Yield Investment Program (HYIP)
 - propose returns of x% per DAY
- Basically Ponzi (pyramid) schemes that pay initial investors from newly joined mugs
- Often splash out for HTTPS certificates !
- Now some are up-front about Ponzi nature
- Reputation sites document their status
- There are a LOT of them, but little studied

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European Human Rights Centre

The European Human Rights Centre (EHRC) represents over 100 non-governmental and other not-for-profit organisations interested in the promotion of Human Rights throughout Europe and beyond.

Visit EHRC websites for more information on EHRC and its activities.

The purpose of the Centre is to contribute to the general advancement of the human rights research by promoting cooperation in Europe between organisation and goverment officials, and by collaborating with similar associations throughout the world.

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Our Mission Statement

Human Rights First believes that building respect for human rights and the rule of law will help ensure the dignity to which every individual is entitled and will stem tyranny, extremism, intolerance, and violence.

Human Rights First protects people at risk: refugees who flee persecution, victims of crimes against humanity or other mass human rights violations, victims of discrimination, those whose rights are eroded in the name of national security, and human rights advocates who are targeted for defending the rights of others. These groups are often the first victims of societal instability and breakdown; their treatment is a harbinger of wider-scale repression. Human Rights First works to prevent violations against these groups and to seek justice and accountability for violations against them.

Human Rights First is practical and effective. We advocate for change at the highest levels of national and international policymaking. We seek justice through the courts. We raise awareness and understanding through the media. We build coalitions among those with divergent views. And we mobilize people to act.

Human Rights First is a non-profit, nonpartisan international human rights organization based in Strasbourg







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WATCH >> Our two minute Flash video on the situation in Darfur



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Fake Institution

- Sends spam hoping for links to website
- Site has new graphics and layout, but stolen content (lightly) edited for new context
- Point of site seems to be the job adverts
- Ads are by Google!
- A handful of similar sites known to exist...
 - owner appears to be "Nichifor Valentin" from Tulcea in Romania (cyberdomino.com)
- Has fooled many of the major universities of the world!

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The purpose of the Federation is to contribute to the general advancement of the science of biophysics research by promoting cooperation in Europe between scientific and technical societies and associations devoted to these areas of activity and by collaborating with similar associations throughout the world.

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😹 Link exchange proposal

My name is Abbie Richardson. I've just visited your website and I was wondering if you'd be interested in exchanging links with my website. I can offer you a home page link back from my Business and Payroll website which is http://www.berlin-archive.com/with-page-rank As mentioned, your link would be placed on the site home page, not on any "links" pages which may be buried in the site somewhere. I'm sure this exchange would be benefitial for both of our sites, helping towards increasing our visibility in search engines. If you are interested, please add the following information to your

website and kindly let me know when it's ready. I'll do the same for you in less than 24 hours, otherwise you can delete my link from your site.

Title: Payroll Software URL: http://www.kcsplc.com Description: KCS Rightsource provides integrated HR and Payroll Software to mid sized UK businesses.

Owne<u>r</u>: |richard ▼ |<u>A</u>ccess: |public Tags... no tags

From: Abbie Richardson <abbie.richardson@berlin-archive.com>

Date: Sun, 5 Apr 2009 21:06:31

To: Hi

5.

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Link spammers

- Low volume spam sent
 - if you have a high page-rank you'll be targeted
 - googling usually finds a few examples, but not many
- Site to be linked to is generally "Made for AdSense"
 - They make money from people clicking on adverts
 - They attract people by having a high page rank
 - Your link to them increases their page rank!
- Content of websites is somewhat variable
 - may be stolen content
 - may be translated content
 - may be ezinearticles
 - content for filling up your blog/website
 - terms of service say you must provide a source credit

Comparing take-down times

- Defamation believed to be quick (days)
- Copyright violation also prompt(ish)
 - experimentally "days"
 - albeit with prompting, suggesting perseverance matters
- Fake escrow agents
 - average 9 days, median 1 day
 - note that AA419 aware of around 25% of sites
- Mule recruitment sites (Sydney Car Center etc)
 - average 13 days, median 8 days
 - doesn't attack any particular bank, so they ignore the issue
 - Slower than escrow sites (vigilantes more motivated ?)
- Fake pharmacies
 - No vigilante groups so lifetime is ~2 months

Child sexual abuse images (CAI)

- Provided with anonymised data by IWF
 - Jan–Dec 2007 there were 2585 different domains
 - ignoring 8 (free-web?) domains with >100 reports
- Computed initial take-down time (ignored recompromise)
 - mean 21 days, median 11 days
- If include sites with no removal at all
 - mean 30 days (and growing), median 12 days
- Fast in UK : IWF checks with police and then contacts the ISP
 - but "not authorised" to act internationally
 - passes data via UK police to foreign forces
 - also pass to another INHOPE member
- Confusion of aims (removal/catch criminals)

	Phishing	Fake Escrow	Pills Penis &c	Fake Bank	Fake Institute	Link exchange
		LSCIOW	Tenis ac	Dank	mstitute	exchange
Number per month	thousands	dozens	many	handful	few	dozens
Trying to hide?	yes	no	no	no	no	no
Self-similar	yes	yes	yes	a bit	yes	no
Removal	banks & experts	vigilantes	vigilantes	vigilantes	no	no
Adverts	no	no	no	no	yes	yes

Evil on the Internet

BLOG: http://www.lightbluetouchpaper.org/

http://www.cl.cam.ac.uk/~rnc1/



