

GCHQ, the British signals intelligence agency, prepared the following PowerPoint slideshow presentation for a top-secret intelligence conference in 2012, revealing a pilot program called Squeaky Dolphin.

Documents taken from the National Security Agency by Edward Snowden and obtained by NBC News detail how British cyber spies demonstrated to their U.S. partners in 2012 the ability to monitor YouTube and Blogger in real time and collect addresses from the billions of videos watched daily, as well as some user information, for analysis. At the time the documents were printed, GCHQ was also able to spy on Facebook and Twitter. Called “Psychology A New Kind of SIGDEV,” (Signals Development), the presentation includes a section that spells out “Broad real-time monitoring of online activity” of YouTube videos, URLs “liked” on Facebook, and Blogspot/Blogger visits. The monitoring program is called “Squeaky Dolphin.”

NBC News is publishing the documents with minimal redactions to protect individuals. NBC News has also withheld two slides for further review. The last five pages shown here are from an earlier GCHQ document in 2010.

Read the article online at investigations.nbcnews.com.

TOP SECRET//SI//REL TO USA, FVEY



Psychology

A New Kind of SIGDEV

Establishing the Human Science Operations Cell

TOP SECRET//SI//REL TO USA, FVEY

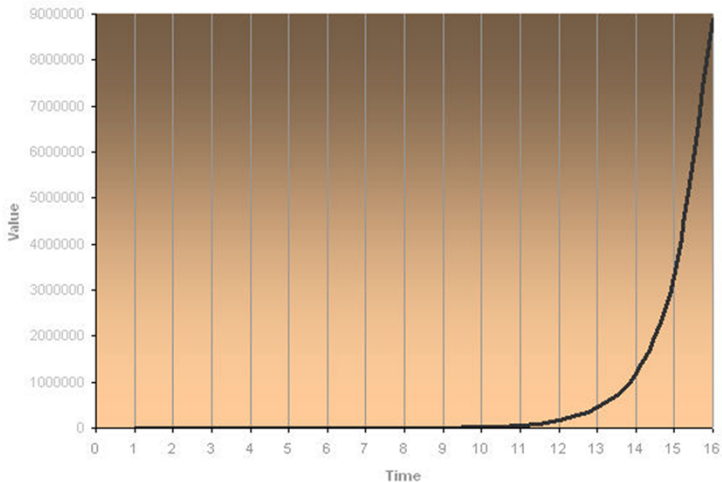
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AP/WIDE WORLD

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TOP SECRET//SI//REL TO USA, FVEY



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100bn

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TOP SECRET//SI//REL TO USA, FVEY

SIGINT

Integrated
Operations

Covert Internet

CNE

TOP SECRET//SI//REL TO USA, FVEY

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Online
HUMINT

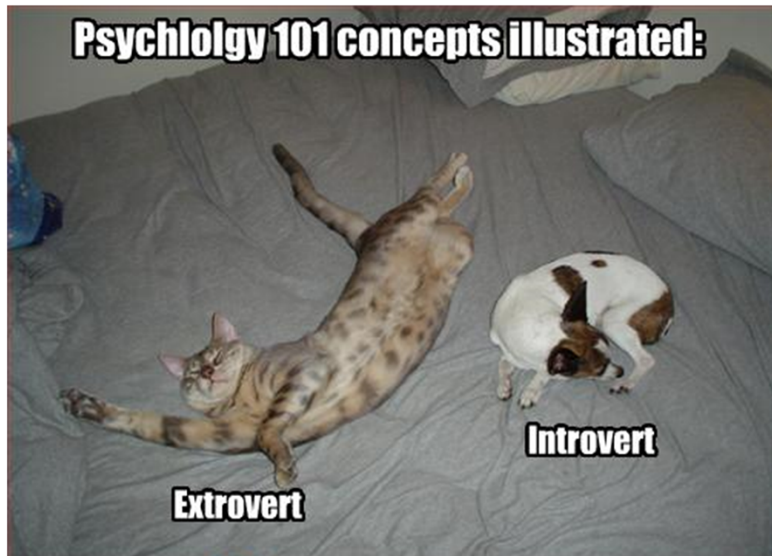
Strategic
Influence

Disruption
and CNA

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TOP SECRET//SI//REL TO USA, FVEY

Psychology 101 concepts illustrated:



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Human Science?

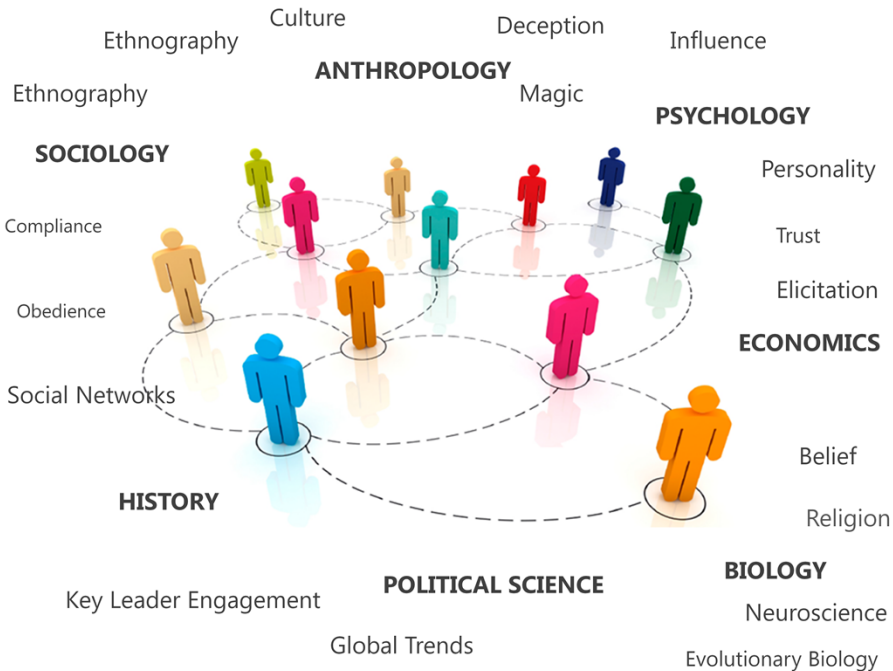
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TOP SECRET//SI//REL TO USA, FVEY



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TOP SECRET//SI//REL TO USA, FVEY



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TOP SECRET//SI//REL TO USA, FVEY

S4

SCIENCE

SIGINT

SKILLS

SYSTEMS

TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



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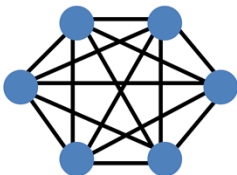


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Individuals



Groups



Socio-Cultural

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TOP SECRET//SI//REL TO USA, FVEY



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TOP SECRET//SI//REL TO USA, FVEY

OCEAN



TOP SECRET//SI//REL TO USA, FVEY

OCEAN

Openness

Conscientiousness

Extroversion

Agreeableness

Neuroticism

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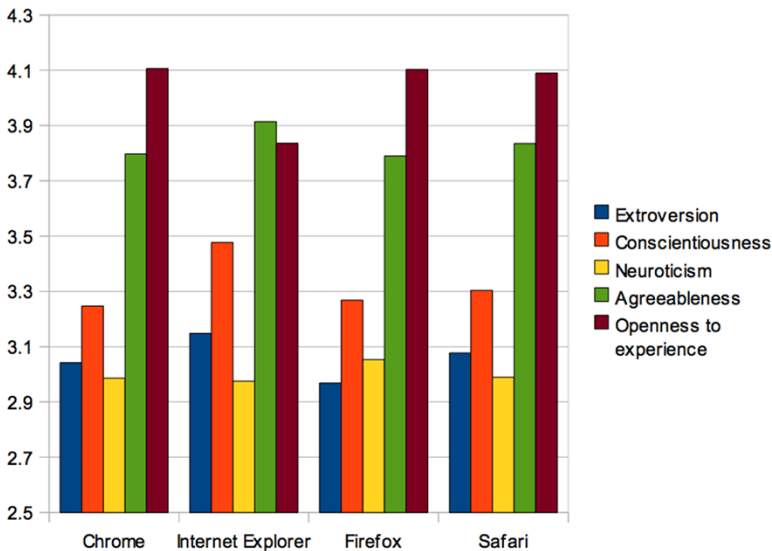


VS



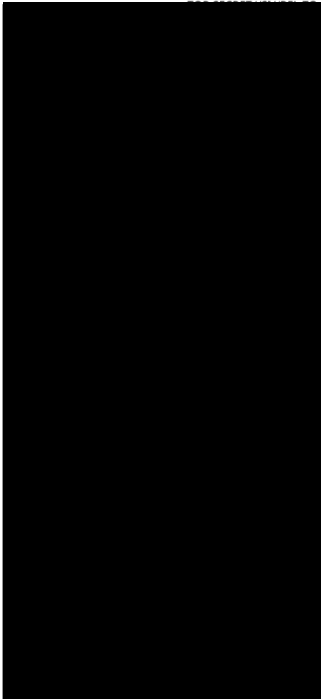
TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

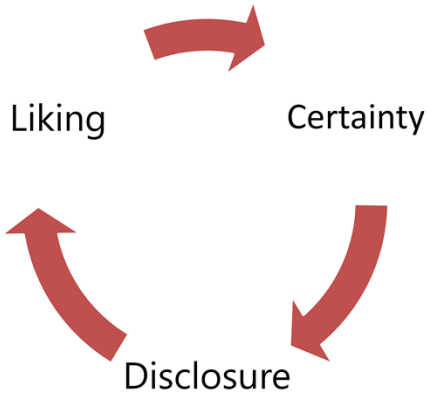
USA, FVEY



What
can we
tell?

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TOP SECRET//SI//REL TO USA, FVEY

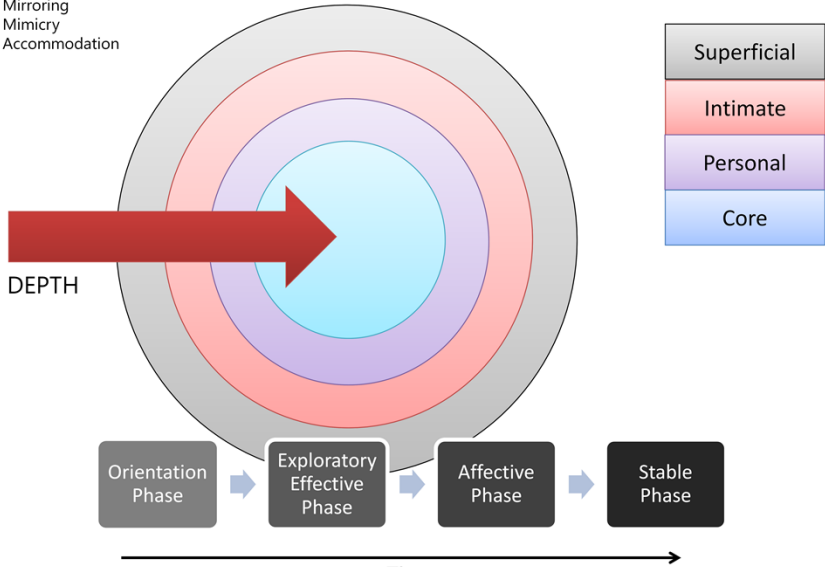


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TOP SECRET//SI//REL TO USA, FVEY

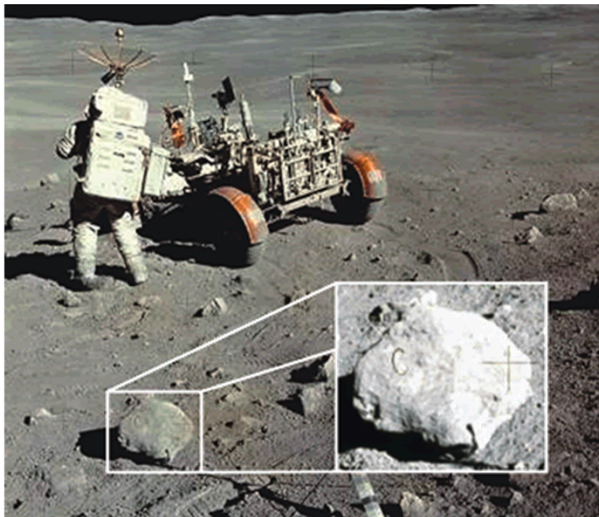
Facilitated through:

- Mirroring
- Mimicry
- Accommodation



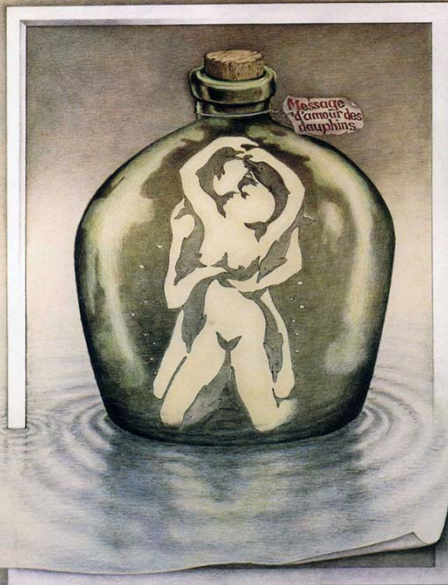
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TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//COMINT//REL



Le message d'amour des dauphins. II/III. Le message d'amour des dauphins. II/III. Le message d'amour des dauphins. II/III.

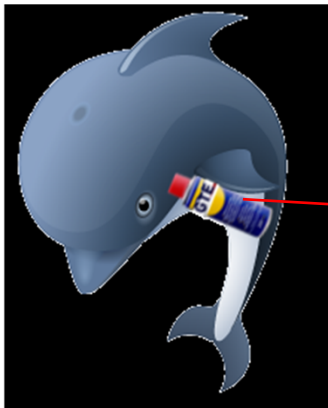
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TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY

SQUEAKY DOLPHIN



GTE=Global Telecoms Exploitation, a GCHQ unit that collects data from fiberoptic cables

Can SIGDEV ~~help us understand and shape the Human Terrain?~~

Signals Development

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SQUEAKY DOLPHIN

Broad real-time monitoring of online activity of:

- YouTube Video Views
- URLs 'Liked' on Facebook
- Blogspot/Blogger Visits



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Job Vacancies in Lagos, Nigeria

SQUEAKY DOLPHIN - City Activity | Actions ▾

Select a City
LAGOS

SQUEAKY DOLPHIN
Battle Damage Assessment Demonstrator - City Activity

Facebook - Most..._last 24 hours) refreshed today at 14:37:57.

http://w..._jooonews
http://w..._mlyashoo
http://m..._siles.com
http://w..._go.com/
http://w..._pins.com
http://w..._5705119
http://w..._onylaxoo
http://w..._4457184
http://w..._cnet8reg
http://w..._w.co.uk/
SITEURL
undefined
http://w..._alcohol4
http://w..._grup.php
http://w..._wescore
http://w..._5787784
http://w..._guarding
http://w..._dult.com
http://badoo.com/

View results

Blogger - Most..._last 24 hours) refreshed today at 14:37:57.

TherOp..._Careers
Nehrad..._moby...
CABARR..._Bik...
HEDAL..._iChA...
PRETTY..._WAGLE...
Blog Name: job+vacancies+in+Nigeria
Total View: 88
Total View's: 29+ACD

View results

YouTube - Most..._past 24 hours) refreshed today at 14:37:57.

Wp+eLR0K...
of_17c8aK
FneUf+wXtKieg
4pnoQP2M04
19573k0BuE
_iMCOp/Yny8
0e7vObnfUwC
HooeWfR0uP
Fh3kgy0LFR
1vRkoneSe4
z5uPST80uWw

View results

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TOP SECRET//SI//REL TO USA, FVEY

Cricket Related Activities in London, England

**Embed+Cricket+Channel
T20+ODI+Test+Channels
ESPN CricInfo India Vs England
Page 'Liked'**

SQUEAKY DOLPHIN - City Activity | Admin

Select a City

LONDON

Search



SQUEAKY DOLPHIN

Battle Damage Assessment Demonstrator - City Activity

Facebook - Most Liked URLs (in past 24 hours)

refreshed today at 17:09:33

Like this post
www.facebook.com/indianpost
www.facebook.com/indianpost

Like this post
http://www.espncricinfo.com/india-vs-england-2011/england-vs-india-2011-08-14.html

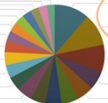


View results

Blogger - Most Popular Blogs (in past 24 hours)

refreshed today at 17:09:33

Embed+Cricket+Channel
T20+ODI+Test+Channels
ESPN CricInfo India Vs England
Page 'Liked'

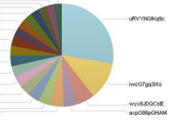


View results

YouTube - Most Popular Videos (in past 24 hours)

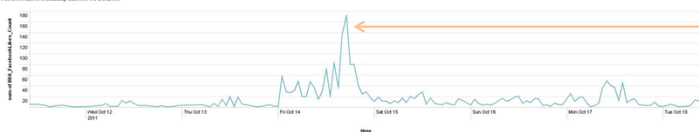
refreshed today at 17:09:33

Embed+Cricket+Channel
T20+ODI+Test+Channels
ESPN CricInfo India Vs England
Page 'Liked'



View results

Facebook Likes containing 'liam fox' for LONDON



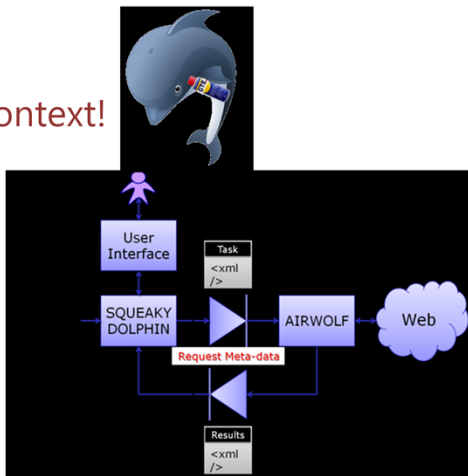
'Facebook' Likes for URLs containing 'liam fox'

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So Passive gives us...
Scalability.

But, we don't have context!

Targeted
enrichment
is the
solution.

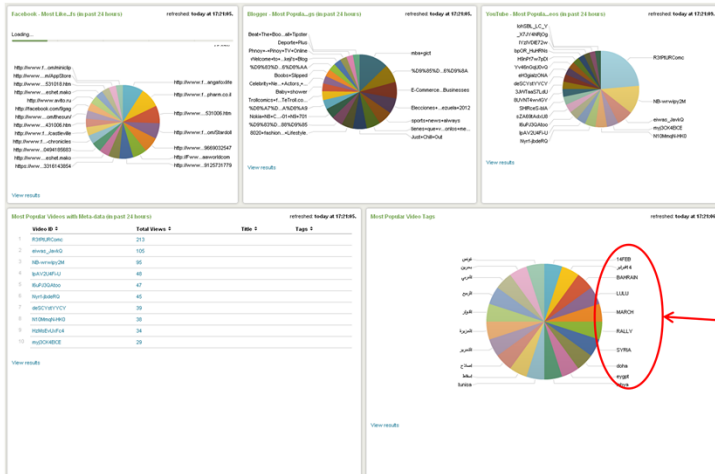


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YouTube

Across the world on 13th February 2012: the 14th Feb & Syrian Rally



YouTube
Tags

**14FEB
BAHRAIN
MARCH
RALLY**

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YouTube Game Trailer in London, England

Popular Activity in last 24 hours

Facebook - Most Liked (in past 24 hours)

refreshed today at 13:21:05

- http://www.847600733
- http://www.1snearedog
- http://www.1onlineshop
- http://www.800550231
- http://www.cant.com
- http://www.1_onDardal
- http://www.131831881
- http://www.1_3astside
- http://www.1_adressore
- http://www.1_new_co.uk
- http://www.1202193000
- http://www.1_confDealy
- http://www.1_baak.com
- http://www.1_confitures



- http://www.1_angelofthe
- http://www.1_onfresant
- http://www.1_1nablalning
- http://www.1channel.ch
- http://www.1_1chrisdiane
- http://www.1_1nlygstone

[View results](#)

Blogger - Most Popular (in past 24 hours)

refreshed today at 13:21:05

- The-Cook+Faas
- vMch+Dagg_24xvD...
- Supportof_12DFLAA...
- Tv=1SCF3202_244-0...
- participat..._1n...
- Burger+L2E_1ch+Re...
- Her+Lacer+Rational
- Evon+Rising+Dop
- D4+Live
- +Welcome+to..._1n2+Blog
- Dimey+R+Hines+Hale
- Microch+ch..._1n...
- Best+The+Doo..._1n...
- 1n+Tipter



- sports+news+always
- Just+Ch+Out
- Disc+Orde..._1n+Fl...
- Equestre+Daily
- Planet+of+Music
- 120N12320E_12AT1A...
- 1n+1a+ov+L..._1n+Or...

[View results](#)

YouTube - Most Popular (in past 24 hours)

refreshed today at 13:21:05

- 148R0m+CD
- 18V46n8
- J8U4u+Y7G
- Bq7g+u+0Yg
- 404_1n+D
- 80048074ev
- 0420R074AE
- 02L46+P18
- 172+D672w
- 34V7as7L6f
- 1ub407E
- en7g+024
- Y11..._1n+48M
- 1p0R_H4R9s
- HBPT7w7d



- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...
- 1n+1a+ov+L...
- 1n+Or...

[View results](#)

Most Popular Videos with Meta-data (in past 24 hours)

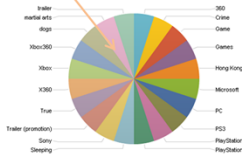
refreshed today at 13:21:05

Video ID	Total Views	Title	Tags
1. 1n+1a+ov+L...	105		
2. 1n+1a+ov+L...	27		
3. Y146n+02+0...	23		
4. pF54139n+48	23		
5. DHRF054AA	22		
6. HBPT7w7d	19		
7. 1p0R_H4R9s	19		
8. Y11..._1n+48M	17		
9. en7g+02+0...	15		
10. 1ub407E	15		

[View results](#)

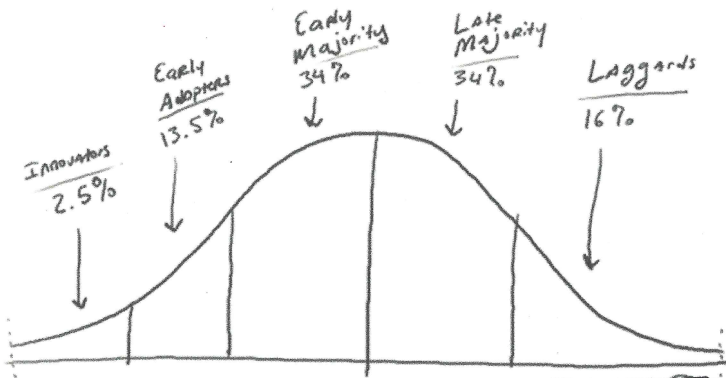
Most Popular Video Tags

refreshed today at 13:21:05



[View results](#)

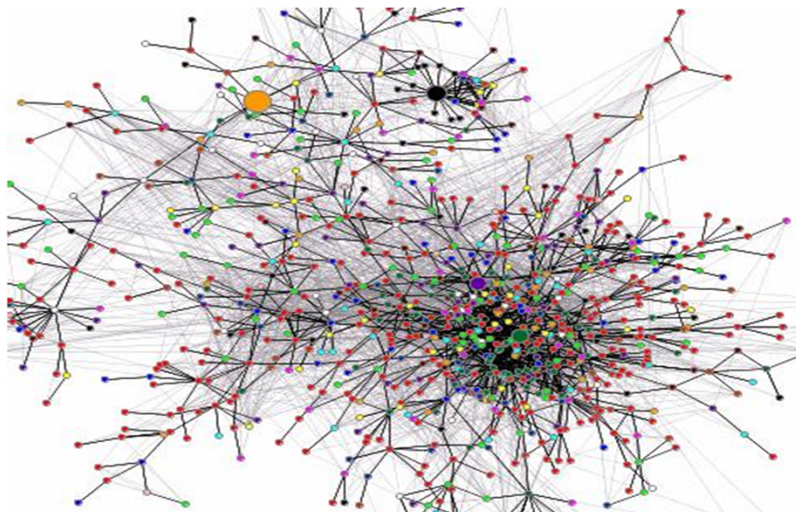
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HOLLOW POINT

TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



Optimising Influence

TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY

NEWTONS CAT



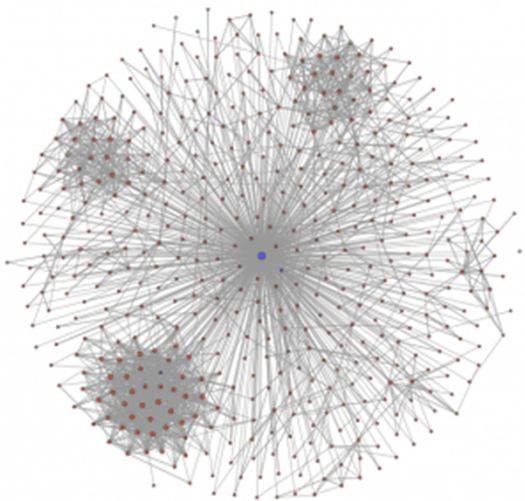
TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY



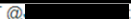


TOP SECRET//SI//REL TO USA, FVEY







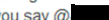

TOP SECRET//SI//REL TO USA, FVEY





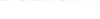
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@  Right on bro
8 hours ago





 
RT @  @  Yeah, so true! you mean I
should be suspicious of you? or that @  should be
challenged?
10 hours ago

 
@  Yeah, so true!
10 hours ago

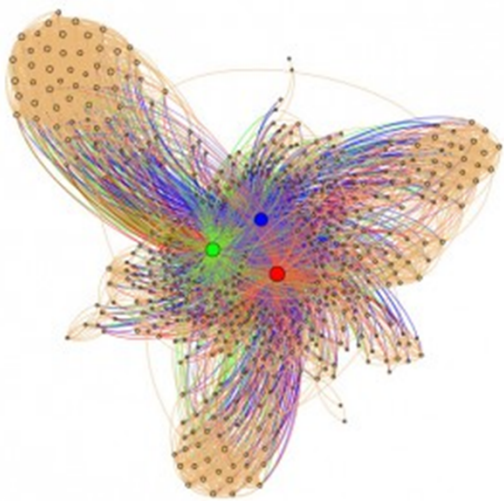
 
RT @  @  you might want to be suspicious
about  >> what do you say @  ?
11 hours ago

 
RT @  @  auto-alert: am monitoring for spam:
@ 
11 hours ago

 
@  you might want to be suspicious about

12 hours ago

 
@  auto-alert: am monitoring for spam: 
5 Feb

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Influence @ Scale

TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



GTE

[REDACTED]
[REDACTED] Human Sciences - HSOC
[REDACTED]

[REDACTED]
[REDACTED] - GTE
[REDACTED]

Joint Threat
Research
Intelligence
Group, a
GCHQ unit
focused on
cyber
forensics,
investigations
and covert
operations

TOP SECRET//SI//REL TO USA, FVEY

These last five pages are from an earlier GCHQ document, from 2010.

UK TOP SECRET STRAP1

Information Operations: The Social Web

The Twitter logo, featuring the word "twitter" in a light blue, rounded, lowercase font with a white outline.The Facebook logo, featuring the word "facebook" in white lowercase letters on a dark blue rectangular background.The Flickr logo, featuring the word "flickr" in blue lowercase letters with a pink "r", followed by a trademark symbol.

Deliver messages and multimedia content across Web 2.0

Crafting messaging campaigns to go 'viral'

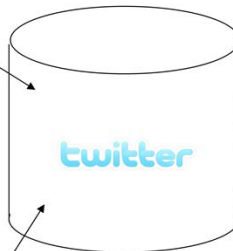
CNIO

Twitter TDI Development



Need SIGINT coverage across protocols,
Not necessarily consistent with target SIGDEV priorities

```
_twitter_sess=BAh7DjoTcGFzc3dvcnRfdG9rZWZ4iLWFhMGI3  
ZDk0OTliNTJkOWQzMzMyYTc2%250AOTkyNjM0Y2ZmM2Y  
5NDNjYmQ6DGNzcmZfaVQjJTZmYjRhNTk5ZDVkMjlkMmF  
h%250AN2U4ZDczOWM2ZWVmNDc5lidzaG93X2Rpc2Nvd  
mVYyYWJpbGl0eV9mb3Jfc29s%250Ab19vbmh5MDoVaW5fb  
mV3X3VzZXJfZmxvdzA6EXRyYW5zX3Byb21wdDA6CXVz%  
250AZXJpBAPZMAEiCmZsYXNoSUM6J0FjdGlvbkNvbNRYb  
2xsZXI6OkZsYXNoOjpG%250AbGFzaEhhc2h7AAY6CkBlc2  
VkewA6B2lkiVhZDRlOGM2NmM0ZjRkM2U2NGI5%250AZG  
ZmMGJmOGVjZDg0Mj0pY3JlYXRlZl9hdGwrCGWCJS4nA  
Q%253D%253D--  
a3894361aa489c2cd51ff326358c92f2e4d39cd8;
```



Login Server

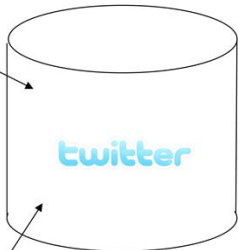
CNIO

Twitter TDI Development



Base64 + double encoded URL

```
0000000 004 \b { 016 : 023 p a s s w o r d _ t
0000020 o k e n * - a a 0 b 7 d 9 4 9 9
0000040 b 5 2 d 9 d 3 3 3 2 a 7 6 9 9 2
0000060 6 3 4 c f f 3 f 9 4 3 c b d : \f
0000100 c s r f _ i d * % 6 f b 4 a 5 9
0000120 9 d 5 d 2 9 d 2 a a 7 e 8 d 7 3
0000140 9 c 6 e a f 4 7 9 * ' s h o w _
0000160 d i s c o v e r a b i l i t y _
0000200 f o r _ s o l o _ o n l y 0 : 025
0000220 i n _ n e w _ u s e r _ f l o w
0000240 0 : 021 t r a n s _ p r o a p t 0
0000260 : \t u s e r i 004 003 331 0 001 * \n f l
0000300 a s h I C : ' A c t i o n C o n
0000320 t r o l l e r : : F l a s h : :
0000340 F l a s h H a s h { \0 006 : \n @ u
0000360 s e d { \0 : 007 i d * % a d 4 e 8
0000400 c 6 6 c 4 f 4 d 3 e 6 4 b 9 d f
0000420 f 0 b f 8 e c d 8 4 2 : 017 c r e
0000440 a t e d _ a t l + \b e 202 % . ' 001
0000460
```



Login Server

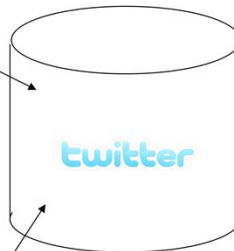
CNIO

Twitter TDI Development



PPF application across 10G Environment

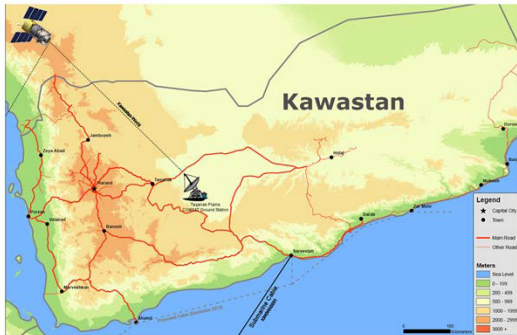
1272671024 **81.169.145.25**
128.242.240.20 6 55489 80 Login-
twitter.com 31 **solo_only@twitter.com**
TDI-Scope 4 User Route 13
81.169.145.25 HHFP-Hash 8 38
4646d4 User-Agent 52 Twitter Tools
Geo-IP-Src 28
49.00;8.39;**KARLSRUHE;DE;5MVV**
Geo-IP-Dst 33 39.0062;-
77.4288;STERLING;U
S;7LLM Event-security-label 6 10007F
Stream-security-label 10 400023E0FF



Millions of events per day feeding
BLACKHOLE

CNIO

Twitter TDI Development



Given a country:

Who are the top Twitter Users?

Or given a user:

Are they really in Kawastan?

SIGDEV augments the IO process to aid targeting and takeup of message