

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. NBC News has added annotations on two slides in yellow boxes.

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

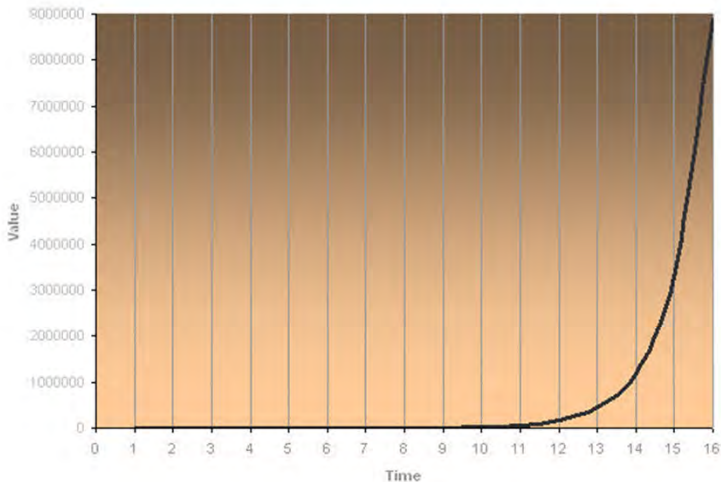
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SIGINT

Integrated
Operations

Covert Internet

CNE

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Online
HUMINT

Strategic
Influence

Disruption
and CNA

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Human Science?

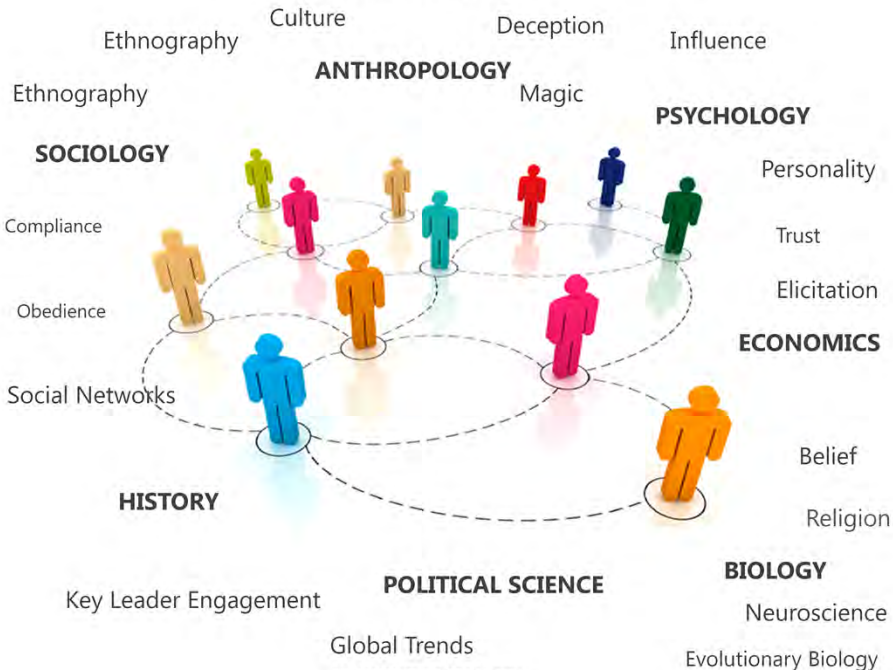
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TOP SECRET//SI//REL TO USA, FVEY

S4

SCIENCE

SIGINT

SKILLS

SYSTEMS

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

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



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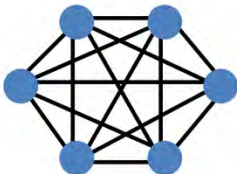


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Individuals



Groups



Socio-Cultural

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



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OCEAN



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

OCEAN

Openness

Conscientiousness

Extroversion

Agreeableness

Neuroticism

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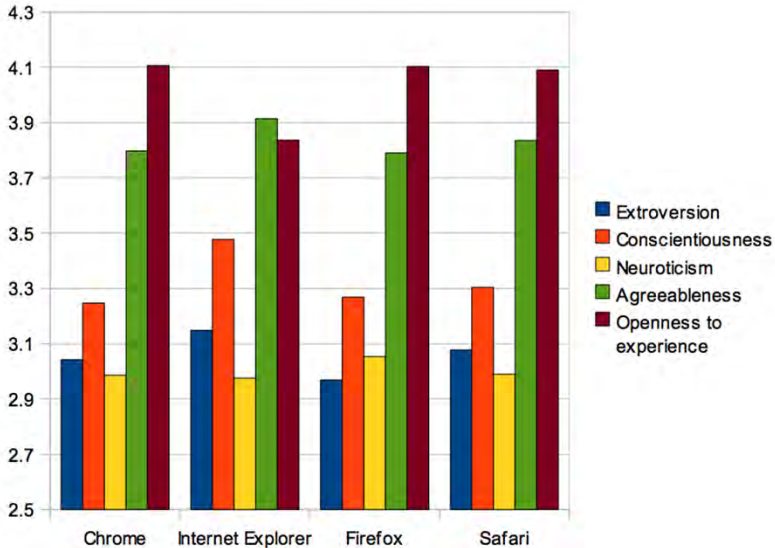


VS



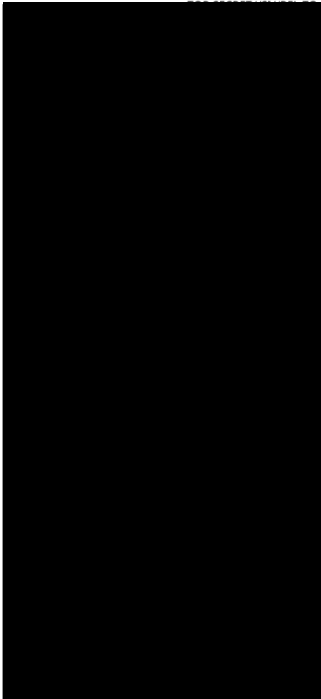
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TOP SECRET//SI//REL TO USA, FVEY



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

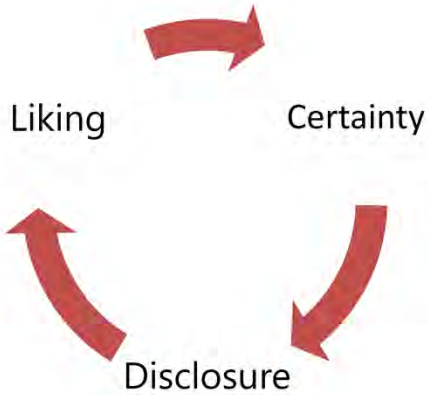
USA, FVEY



What
can we
tell?

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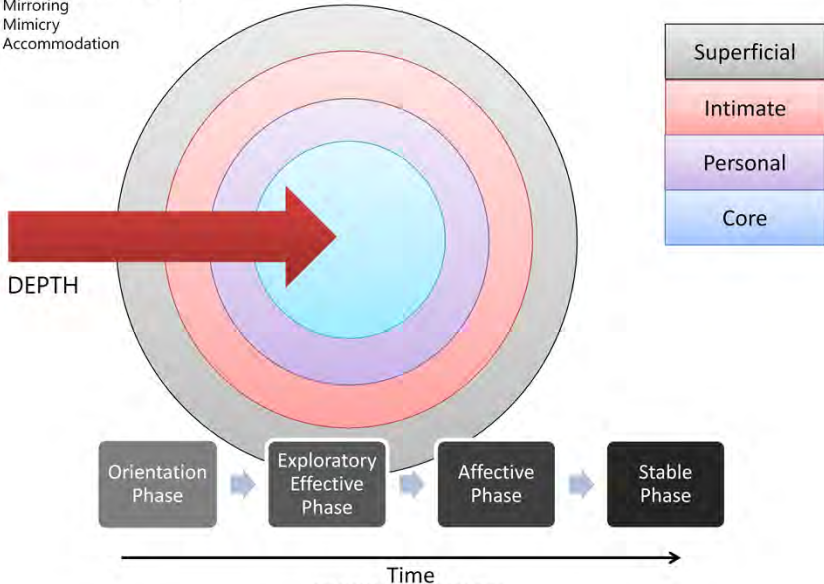


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TOP SECRET//SI//REL TO USA, FVEY

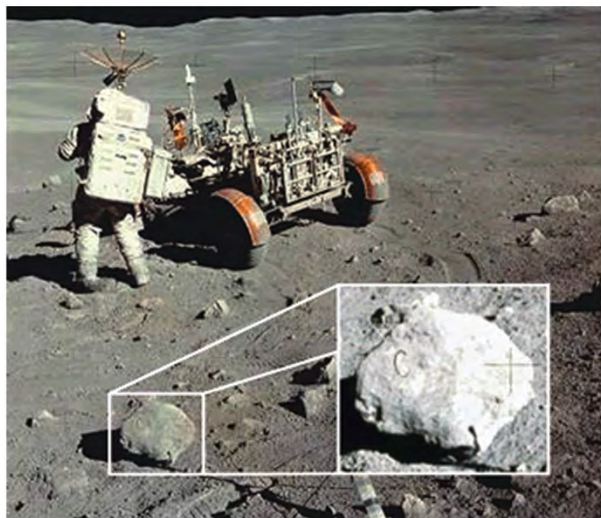
Facilitated through:

- Mirroring
- Mimicry
- Accommodation



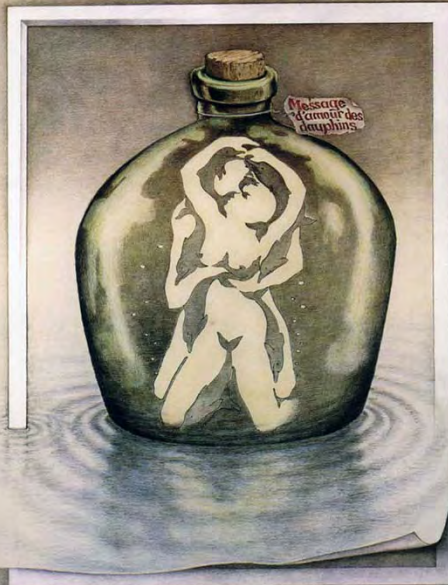
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TOP SECRET//SI//REL TO USA, FVEY



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

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..._mtyashoo
http://w..._siles.com
http://w..._go.com/
http://w..._pins.com
http://w..._5T05119
http://w..._on78xio
http://w..._445T864
http://w..._cnet8reg
http://w..._w.co.uk/
SITEURL
underlined
http://w..._alcohol4
http://w..._grup.php
http://w..._vestore.com
http://w..._5T57784
http://w..._guarding
http://w..._kut.com
http://w..._kadoo.com/

View results

Bloggers - Most... (last 24 hours) | refreshed today at 14:37:57

Blog Name: job-vacancies-in-Nigeria
Total Views: 88
Total Views/Cr: 42426

job-vaca..._nigeria

View results

YouTube - Most... (last 24 hours) | refreshed today at 14:37:57

Wp6EUK9KXG
ot_17c8Aa
FneUfwXTKreg
4pYQOP2M4
1S73k6BtE
_ANDOpYmy8
0e7vObwFUC
WocwvRcUp
FhC3gyGUPk
1vR8onwS4
z5uPST80ur

2P_atCh8-Pi
0EQk1tbBAw4
B9k34UwGY
ONNRIQAWYs
_w96SFTLZw
gPagnf1wCc
188kO7u8SE
Ew1ub87wOg
SIZZ5af2QG

View results

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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

Detail a City
 LONDON



SQUEAKY DOLPHIN
 Battle Damage Assessment Demonstrator - City Activity

Facebook: Most Liked Pages (by post 23 times)

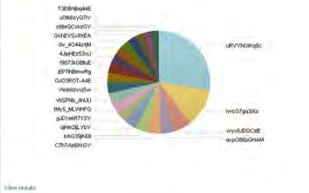
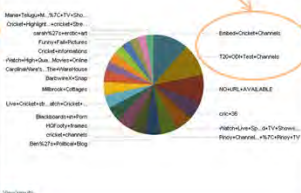
retrieved today at 17:05:37

Repost: Most Popular Pages (by post 24 times)

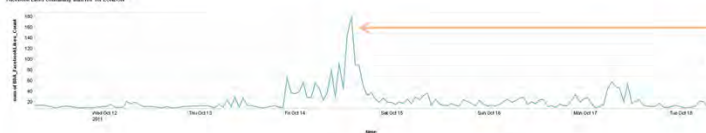
retrieved today at 17:05:37

Facebook: Most Popular Pages (by post 23 times)

retrieved today at 17:05:37



Facebook Likes containing Twitter for LONDON



'Facebook' Likes for URLs containing 'liam fox'

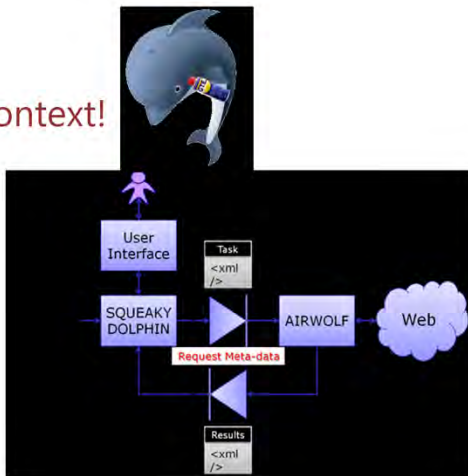
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So Passive gives us...
Scalability.

But, we don't have context!

Targeted
enrichment
is the
solution.

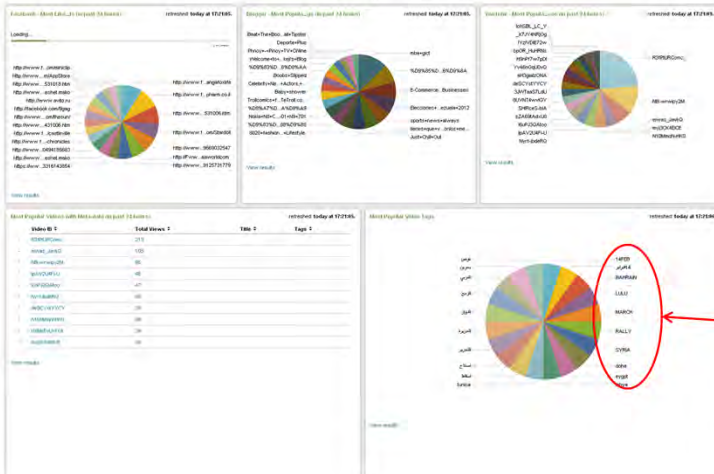


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YouTube

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

Twitter - Most Liked Tweets in last 24 hours

retweeted today at 17:21:05

[http://www.safesoft733](#)
[http://www.united89g](#)
[http://www.1.amen89g](#)
[http://www.800580231](#)
[http://www.cand.com](#)
[http://www.1.am0dard](#)
[http://www.51031188](#)
[http://www.1.6ad0r6](#)
[http://www.1adreforce](#)
[http://www.10w101](#)
[http://www.200100000](#)
[http://www.com0ealy](#)
[http://www.000a.com](#)
[http://www.com0tates](#)

View results

Google - Most Popular Sites in last 24 hours

retweeted today at 17:21:05

[Trac-Cook+Paas](#)
[VMch0ppg_24w4D](#)
[Support01_16DLAA](#)
[Tv=3C9302_24-00](#)
[par0ebest.america](#)
[Burger3.2c_0h0e0es](#)
[Her+Lace+Honey+R](#)
[Evo+Teacup+0ip](#)
[D44Live](#)
[rWelcome+0w_1d0y+0log](#)
[01m0y+0000+0400](#)
[M00000000_000000](#)
[B00+T00+00_00+T0000](#)

View results

YouTube - Most Popular Videos in last 24 hours

retweeted today at 17:21:05

[L1R0004C0](#)
[R0V4E80](#)
[J#RUA4Y7Rg](#)
[Bqf7g+00Y](#)
[804_0105](#)
[000000100w](#)
[00000014E](#)
[0033001818](#)
[020V0E24](#)
[3M70a5T0L0](#)
[h0b0T4E](#)
[em0g0004](#)
[Y10_0400](#)
[h0M_H4R00](#)
[H0P0V0J0](#)

View results

Most Popular Videos with links in last 24 hours

retweeted today at 17:21:05

Video ID	Total Views	Title	Tags
emna_0k0	102		
BUN4k40Y	27		
YV40D0L0H	23		
p0A00g0d	23		
0R0c00A	22		
H0P0V0J0	19		
h0M_H4R00	19		
Y10_0400	17		
em0g0004	15		
h0b0T4E	11		

View results

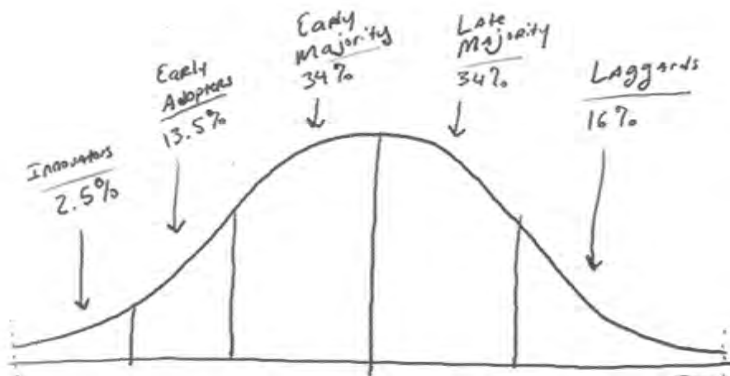
Most Popular Video Tags

retweeted today at 17:21:05

View results

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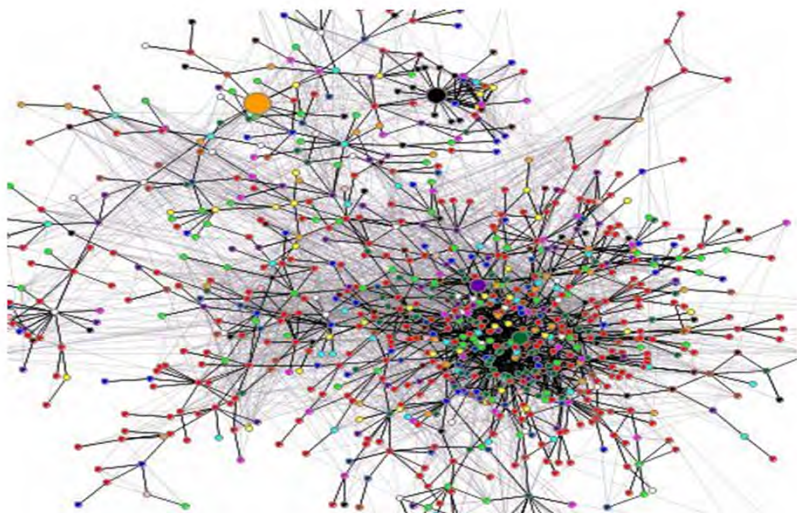
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HOLLOW POINT

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

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



Optimising Influence

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

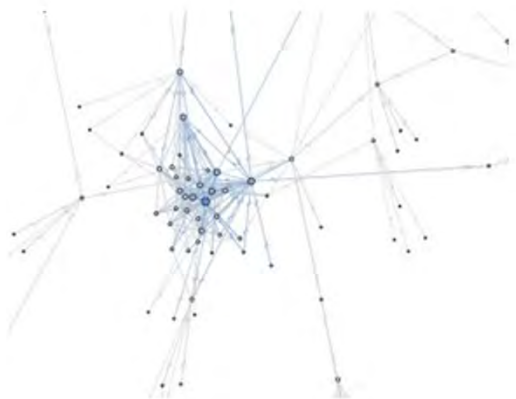
TOP SECRET//SI//REL TO USA, FVEY

NEWTONS CAT



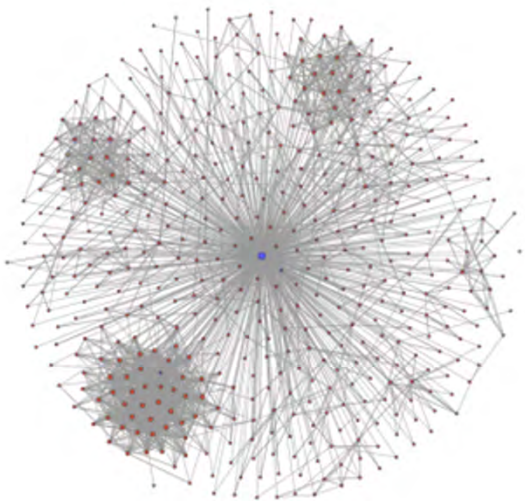
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TOP SECRET//SI//REL TO USA, FVEY



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






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








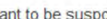
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TOP SECRET//SI//REL TO USA, FVEY






 
@  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

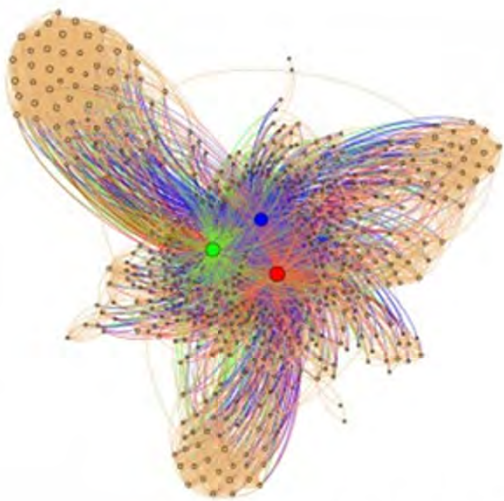
 
RT @  @  you might want to be suspicious about  >> what do you say @  ?
11 hours ago

 
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

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English (US)

REPORT

Login

Fire Ant

Open Source Visualization

SUBMIT A REPORT

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT US

FILTERS **REPORTS** NEWS PICTURES VIDEO ALL

Category Filter [HIDE]

- ALL CATEGORIES
- BBCM TAGS
- IRAQ
- CHINA
- CIVILIANS
- DEATHS
- IRAN
- PAKISTAN
- PROPERTY LOSS
- REPORT SOURCE
- RIOTS

HOW TO REPORT

- By sending an email to open@nbcnews.com
- By filing this form

Scale = 1:65M 00 58'50, 32 53'10 EPSG:300010

Free May 2012 May 2012 Play

Date	Report Source
1 May	180
2 May	250
3 May	200
4 May	150
5 May	100
6 May	250
7 May	280
8 May	200
9 May	180

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



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



[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

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

UK TOP SECRET STRAP1

Information Operations: The Social Web

twitter

You Tube

facebook

flickr

Deliver messages and multimedia content across Web 2.0

Crafting messaging campaigns to go 'viral'

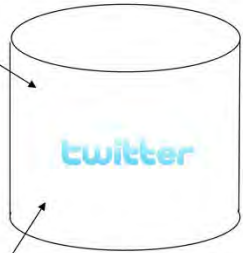
UK TOP SECRET STRAP1

CNIO Twitter TDI Development



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

```
_twitter_sess=BAh7DjoTcGFzc3dvcnRfdG9rZW4iLWFhMGI3  
ZDk0OTliNTJkOWQzMzMyYTc2%25AOTkyNjM0Y2ZmM2Y  
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mV3X3VzZXJfZmxvdzA6EXRyYW5zX3Byb21wdDA6CXVz%  
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a3894361aa489c2cd51ff326358c92f2e4d39cd8;
```



Login Server

UK TOP SECRET STRAP1

CNIO

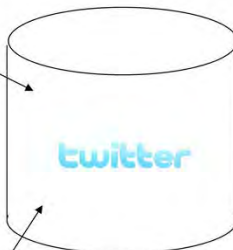
Twitter TDI Development



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 m p t 0
0000260 : \t u s e r i 004 003 331 0 001 * \n f 1
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
    
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Login Server

UK TOP SECRET STRAP1

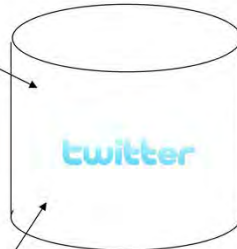
CNIO

Twitter TDI Development

twitter

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



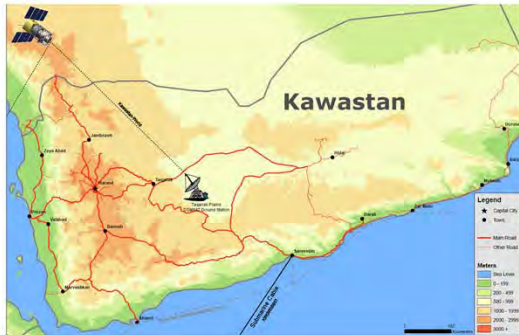
Millions of events per day feeding
BLACKHOLE

UK TOP SECRET STRAP1

CNIO

Twitter TDI Development

twitter



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