

What THEY Know, What YOU Don't: Digital Intrusion & Digital Privacy

St. Louis UNIX Users Group

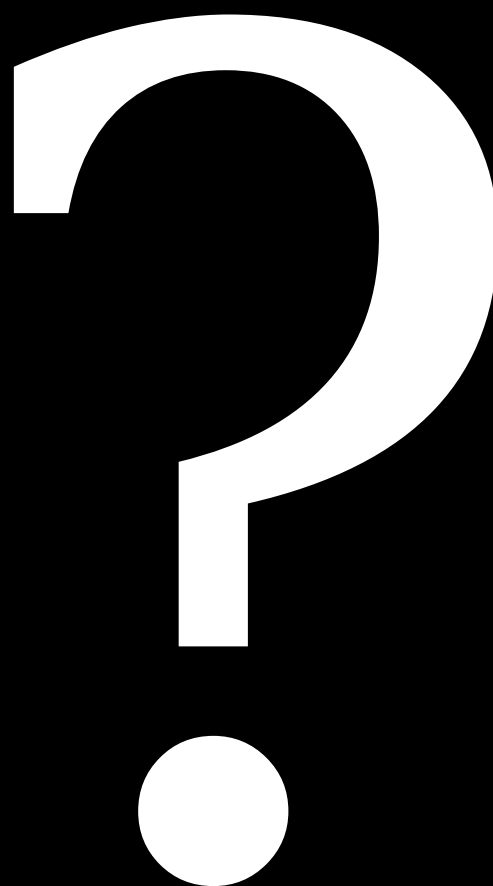
Scott Granneman

Denise Lieberman

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Last updated 20130911

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Scott



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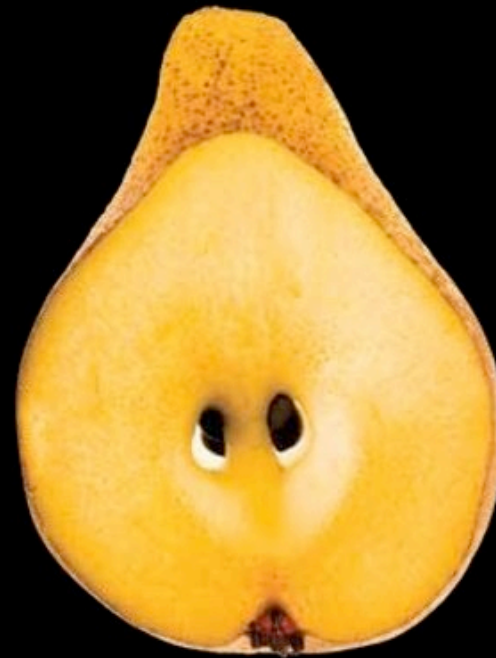
Compute in the Cloud to Streamline Your Desktop

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Browser window: Browsers, phishing, and user interface design - Mozilla Firefox <2>

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Browsers, phishing, and user int...1

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Focus on IDS

Focus on Linux

Focus on Microsoft

Forensics

Pen-test

Security Basics

Vuln Dev

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(page 1 of 2) next



Browsers, phishing, and user interface design

Scott Granneman, 2006-06-05

Phishing works for so many reasons, we need to rethink browser and user interface design to provide some real-life security to the average user who doesn't see or understand the security cues.

Occasionally a criminal is so, well, clever that you have to admire him even as you wish that he spends the rest of his life in jail. Take [Arnold Rothstein](#), for instance. One of the kingpins of organized crime in New York City during Prohibition and before, the "Great Brain," as he was termed, was more than likely behind the infamous [Black Sox scandal](#), in which the 1919 World Series was fixed in favor of the Cincinnati Reds. He is also widely credited with inventing the floating crap game immortalized in *Guys and Dolls*. Like some character out of a Damon Runyon story, Rothstein's "office" was outside of Lindy's Restaurant, at Broadway and 49th Street, and he

" Answer me this truthfully: do you really trust Aunt Sally or Steve in Accounting or your kid sister Brooke to carefully read an anti-phishing warning, ponder the ramifications, and then make a wise choice? If you answer in the affirmative, then you haven't read Why Phishing Works. "

Scott Granneman

Done

2.517s

5 Errors

PageRank

Alexa

LINUX

MAGAZINE

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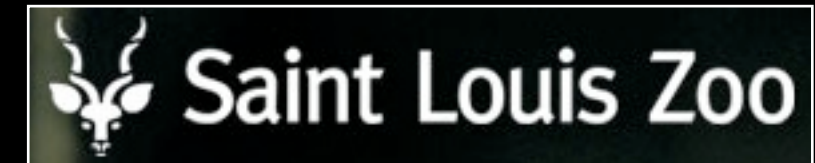
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Department of Neurology



Denise



Senior Attorney,
2006–Present



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Technology & the Law



Legal Director of ACLU-EM
1997-2005

Technology
never gets worse.
It only gets better.

Bruce Schneier



You have zero privacy anyway.
Get over it.

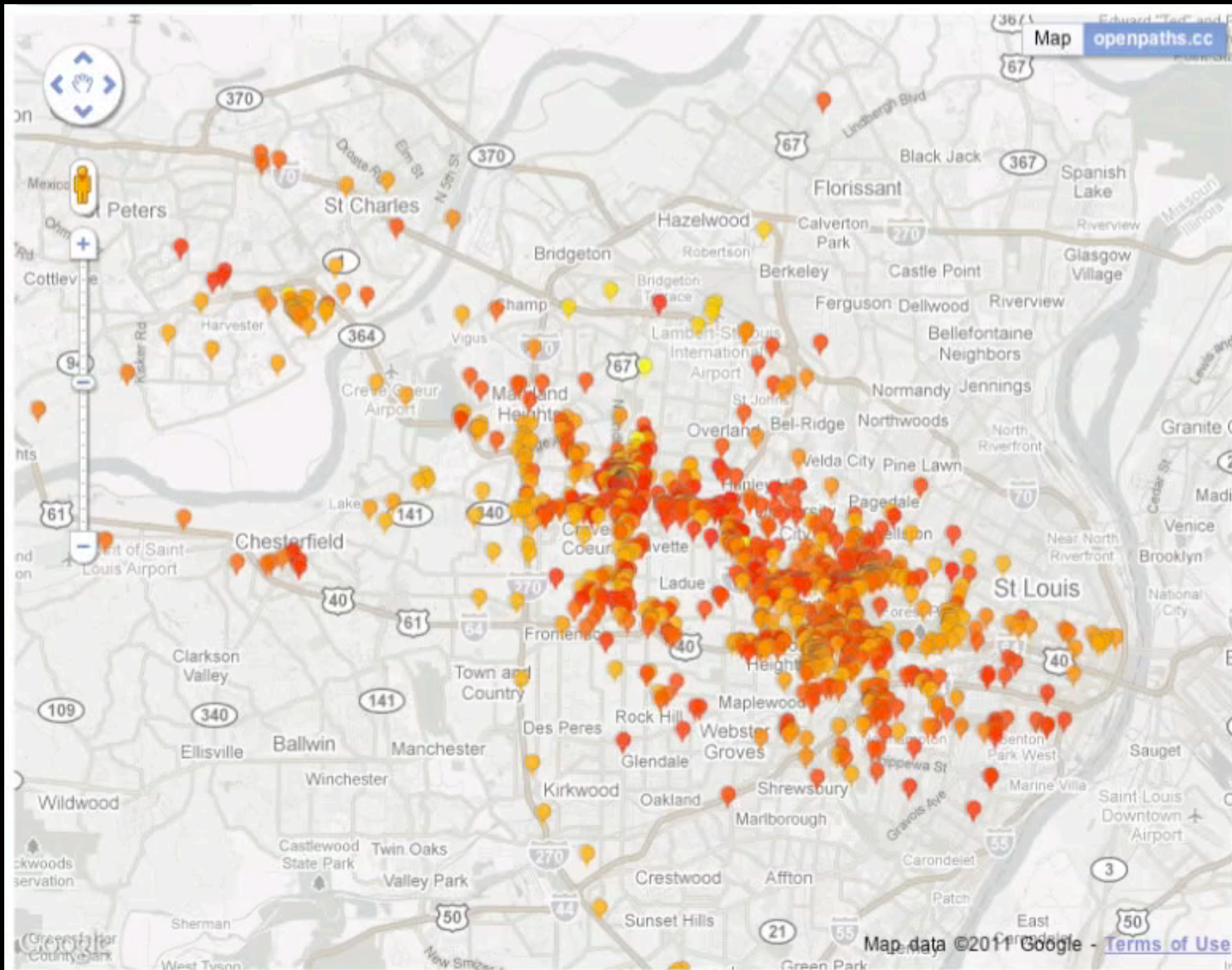


Scott McNealy,
SUN, 1999

Any unencrypted message
sent over the Internet
is being delivered
to every intelligence service
in the world.

Edward Snowden,
August 13, 2013





Animate	<input type="checkbox"/>
Show Lines	<input type="checkbox"/>
Markers	<input checked="" type="checkbox"/>
Follow	<input checked="" type="checkbox"/>
Move Speed	<input type="range" value="0.5"/>
Hour Spectrum Colors	
Day/Night Colors	
Weekday/Weekend Colors	
Unicorn Rainbow Colors	
Reset Map	
Close Controls	

Thu May 5, 2011 9:44

Key

morning noon evening



What's a *packet sniffer*?

A program and/or device
that monitors the data
passing through a network

- ✓ Where data is coming from
 - ✓ Where data is going
 - ✓ What the data is



www.wireshark.org

(Untitled) - Ethereal

File Edit View Go Capture Analyze Statistics Help

Filter: **imap contains LOGIN** + Expression... Clear Apply

No.	Time	Source	Destination	Protocol	Info
392	46.193576	66.39.82.33	192.168.2.111	IMAP	Response: + OK [CAPABILITY IMAP4REV1 LITERAL+ SASL-IR LOGIN-REFERRALS AUTH=LOGIN] g
395	46.254800	66.39.82.33	192.168.2.111	IMAP	Response: + CAPABILITY IMAP4REV1 LITERAL+ IDLE NAMESPACE MAILBOX-REFERRALS BINARY U
396	46.260155	192.168.2.111	66.39.82.33	IMAP	Request: 1 LOGIN " " " " " "

Frame 396 (98 bytes on wire, 98 bytes captured)

Ethernet II, Src: 00:02:2d:2b:e7:34, Dst: 00:0f:3d:84:d4:37

Internet Protocol, Src Addr: 192.168.2.111 (192.168.2.111), Dst Addr: 66.39.82.33 (66.39.82.33)

Transmission Control Protocol, Src Port: 50527 (50527), Dst Port: imap2 (143), Seq: 15, Ack: 371, Len: 32

Internet Message Access Protocol

```

0000  00 0f 3d 84 d4 37 00 02 2d 2b e7 34 08 00 45 00  ..=..7..-+.4..E.
0010  00 54 fc 1e 40 00 40 06 e7 25 c0 a8 02 6f 42 27  .T..@.@.%....oB'
0020  52 21 c5 5f 00 8f 90 7f de ed f1 34 df ce 80 18  R!_....4....
0030  07 cc cd 8f 00 00 01 01 08 0a 00 29 23 9d 8e 64  ..... )#.d
0040  5f 10 31 20 4c 4f 47 49 4e 20 22 73 63 6f 74 74  .1 LOGI N "
0050  22 20 22 5c 5c 30 37 29 69 4f 54 61 26 5c 5c 22  " " " "
0060  0d 0a  ..
  
```

File: (Untitled) 1185 KB 00:01:51 Drops: 0 P: 1711 D: 3 M: 0

20100511.pcap - Wireshark

File Edit View Go Capture Analyze Statistics Telephony Tools Help

Filter: http contains facebook + Expression... Clear Apply

No.	Time	Source	Destination	Protocol	Info
13	6.294614	192.168.1.114	66.220.145.13	HTTP	GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1
168	106.564880	192.168.1.114	69.63.176.174	HTTP	GET /x/3806658556/false/p_504568267=3 HTTP/1.1
364	272.187522	192.168.1.114	69.63.176.174	HTTP	GET /x/2004290339/false/p_504568267=3 HTTP/1.1
4334	298.940663	192.168.1.139	66.220.145.35	HTTP	GET /p HTTP/1.1
4336	299.056349	192.168.1.139	66.220.145.35	HTTP	GET /x/1262269691/false/p_1158900097=29 HTTP/1.1
4349	299.223074	192.168.1.139	69.63.189.34	HTTP	GET /ajax/presence/reconnect.php?__a=1&reason=0&iframe_loaded=t
4432	299.514930	192.168.1.139	66.220.145.35	HTTP	GET /x/3366637175/false/p_1158900097=0 HTTP/1.1
4433	299.515794	192.168.1.139	66.220.145.35	HTTP	[TCP Out-Of-Order] GET /x/3366637175/false/p_1158900097=0 HTTP/1.1
4444	299.732803	192.168.1.139	69.63.189.34	HTTP	POST /ajax/chat/buddy_list.php?__a=1 HTTP/1.1 (application/x-v
4760	302.490790	192.168.1.139	69.63.189.34	HTTP	GET /ajax/chat/history.php?__a=1&id=1348823550 HTTP/1.1
5088	305.877586	192.168.1.114	69.63.189.31	HTTP	GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1
6639	324.403128	192.168.1.139	77.67.87.122	HTTP	GET /hprofile-ak-sf2p/hs649.snc3/27486_100000479785789_586_q.jp
7053	335.333305	192.168.1.139	77.67.87.122	HTTP	GET /hprofile-ak-sf2p/hs309.ash1/23244_883125579_9824_a.jpg HT

Keep-Alive: 115\r\n
Connection: keep-alive\r\n
X-SVN-Rev: 244938\r\n
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439\r\n
[truncated] Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87; datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c4\r\n

0100 35 39 20 31 2c 75 74 66 20 38 30 71 30 30 2e 37 59-1, utt -8; q=0.7
01c0 2c 2a 3b 71 3d 30 2e 37 0d 0a 4b 65 65 70 2d 41 ,*; q=0.7 ..Keep-A
01d0 6c 69 76 65 3a 20 31 31 35 0d 0a 43 6f 6e 6e 65 live: 11 5..Conne
01e0 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 ction: k eep-aliv
01f0 65 0d 0a 58 2d 53 56 4e 2d 52 65 76 3a 20 32 34 e..X-SVN -Rev: 24
0200 34 39 33 38 0d 0a 52 65 66 65 72 65 72 3a 20 68 4938..Re ferer: h
0210 74 74 70 3a 2f 2f 77 77 77 2e 66 61 63 65 62 6f ttp://ww w.facebo
0220 6f 6b 2e 63 6f 6d 2f 70 72 6f 66 69 6c 65 2e 70 ok.com/p rofile.p
0230 68 70 3f 69 64 3d 35 30 34 35 36 38 32 36 37 26 hp?id=50 4568267&
0240 76 3d 77 61 6c 6c 26 73 74 6f 72 79 5f 66 62 69 v=wall&s tory_fbi
0250 64 3d 31 31 38 33 38 34 38 33 34 38 36 31 34 33 d=118384 83486143
0260 39 0d 0a 43 6f 6f 6b 69 65 3a 20 5f 5f 75 74 6d 9..Cooki e: __utm
0270 61 3d 38 37 32 38 36 31 35 39 2e 31 33 31 36 31 a=872861 59.13161
0280 39 33 33 36 38 2e 31 32 32 36 30 31 30 37 30 39 93368.12 26010709
0290 2e 31 32 35 37 36 33 30 31 32 36 2e 31 32 35 37 .1257630 126.1257

HTTP Referer (http.referer),... Packets: 52773 Displayed: 133 Marked: 0 Profile: Default

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87;
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n
```

[12968 bytes missing in capture file]Ys....x....

m..Z.....ek.-!

J*%k.....I.....W..!

,...!D5...d.k.z.x..2.gv!...0.....|."...+.

... S....e.....b..+..M....~B...>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.\$.....r.....l..

.....K..w.p.....a(.....].>

Find Save As Print Entire conversation (10512 bytes)

ASCII EBCDIC Hex Dump C Arrays Raw

Help

Filter Out This Stream

Close

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87;
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n
```

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.,...!D5...d.k.z.x..2.gv!...0.....|. "...+.

... S....e.....b..+..M....~B...>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.\$.....r.....l..

.....K..w.p.,.....a(.....].>

Find Save As Print Entire conversation (10512 bytes)

ASCII EBCDIC Hex Dump C Arrays ☒ Raw

Help

Filter Out This Stream

Close

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87;
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n
```

```
[12968 bytes missing in capture file]Ys....x....
m..Z.....ek.-!
J*%k.....I.....W..!
.,...!D5...d.k.z.x..2.gv!...0.....|. "...+.
... S....e.....b..+..M....~B...>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.$.....r.....l..
.....K..w.p.,.....a(.....].>
```

Find Save As Print Entire conversation (10512 bytes)

ASCII EBCDIC Hex Dump C Arrays Raw

Help

Filter Out This Stream

Close

Follow TCP Stream

Stream Content

GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1

Host: www.facebook.com

User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-us,en;q=0.5

Accept-Encoding: gzip,deflate

Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7

Keep-Alive: 115

Connection: keep-alive

X-SVN-Rev: 244938

Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439

Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87;

datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9; lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439; presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V273608222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n

[12968 bytes missing in capture file]Ys....x....

m..Z.....ek.-!

J*%k.....I.....W..!

....!D5...d.k.z.x..2.gv!...0.....|. "...+.

... S....e.....b..+..M....~B...>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.\$.....r.....l..

.....K..w.p.,.....a(.....].>

Find Save As Print Entire conversation (10512 bytes)

ASCII EBCDIC Hex Dump C Arrays Raw

Help

Filter Out This Stream

Close

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591008; sid=5; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n

[12968 bytes missing in capture file]Ys....x....
m..Z.....ek.-!
J*%k.....I.....W..!
.,...!D5...d.k.z.x..2.gv!...0.....|. "...+.
... S....e.....b..+..M....~B...>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.$.....r.....l..
.....K..w.p.,.....a(.....].>
```

Find Save As Print Entire conversation (10512 bytes)

ASCII EBCDIC Hex Dump C Arrays Raw

Help

Filter Out This Stream

Close

[View Photos of Kathryn \(936\)](#)[View Videos of Kathryn \(3\)](#)[Send Kathryn a Message](#)

And when things start to happen,
don't worry. Don't stew. Just go
right along. You'll start happening
too.

Information

Networks:

Washington University in St. Louis '09
Vanderbilt Grad Student '12

Relationship Status:

Married to
Rebecca Estee

Birthday:

November 25, 1986

Current City:

Saint Louis, MO

Friends

464 friends

[See All](#)**Kathryn Austin**

Add as Friend

Wall**Info**

Kathryn only shares some of her profile information with everyone. If you know Kathryn, send her a message or add her as a friend.

About Me

Basic Info

Sex:	Female
Birthday:	November 25, 1986
Siblings:	Jay Austin
Parents:	Gene Austin
Relationship Status:	Married to Rebecca Estee
Anniversary:	August 20, 2005
Current City:	Saint Louis, Missouri
Hometown:	Austin, Texas
Religious Views:	everything and nothing, including but not limited to: DDR

Bio

There is always a reason to celebrate.

Favorite Quotations

How very special are we,
for just a moment to be,
part of life's eternal rhyme,
how very special are we,
to have on our family tree,
Mother Earth and Father Time.
-Charlotte's Web

Work and Education

Grad School **Vanderbilt University '12** M.Ed.

[Create an Ad](#)**St Louis Bucket List** ×

※

Things to do in St Louis
before you die. One huge
coupon emailed daily.

Like

Aspiring Photographer? ×

※

Earn your degree 100%
online. Over 40 courses to
choose from. Request FREE
Information Today!

Like

Self-Publish Your Book ×

※

New book design, editing &
marketing programs available
to help you successfully self-
publish. Click for 555 free
book promotion tips.

Like

[More Ads](#)

Chat (43)



Raymond Colletti



Mario Treto Jr.



Tony Renner



Amy Trummer

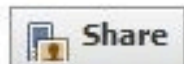


Andy Doy



Jennifer Serendipitous Minkowitz

Report/Block this Person



Share

Work and Education

Grad School

Vanderbilt University '12 M.Ed.
Human Development Counseling

College

Washington University in St. Louis '09

High School

Westlake High School '05

Likes and Interests

Activities

Mentoring, Singing, Geocaching



Mentoring

Interests

Complexity, Simplicity



Complexity

Music

More Fools than Wise, The Bright Light Social Hour, Beastpower



More Fools than Wise

Books

Oh, the Places You'll Go!



Oh, the Places You'll Go!

Television

SpongeBob SquarePants, Degrassi

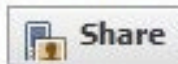


SpongeBob SquarePants

Show other Pages

Chat (43)

Report/Block this Person



Activities

Mentoring, Singing, Geocaching



Mentoring

Interests

Complexity, Simplicity



Complexity

Music

More Fools than Wise, The Bright Light Social Hour, Beastpower



More Fools
than Wise

Books

Oh, the Places You'll Go!



Oh, the
Places
You'll Go!

Television

SpongeBob SquarePants, Degrassi



SpongeBob
SquarePant
s

[Show other Pages](#)

Contact Information

Contact Info

Mobile Number:

5126951475

Website:

<http://fools.wustl.edu>

Facebook Profile:

<http://www.facebook.com/austin.kathryn>







June 6, 2013

the guardian
The Washington Post

NSA Prism program taps in to user data
of Apple, Google and others



June 6, 2013

the guardian
The Washington Post

**U.S., British intelligence mining data from nine
U.S. Internet companies in broad secret
program**





PRISM enables
“collection directly from the servers”
of online companies





facebook



Hotmail®

YAHOO!

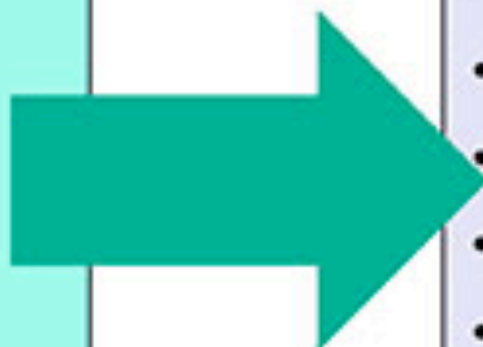


(TS//SI//NF) PRISM Collection Details



Current Providers

- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple



What Will You Receive in Collection (Surveillance and Stored Comms)?

It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details
- **Special Requests**

Complete list and details on PRISM web page:
Go PRISMFAA

“extensive, in-depth surveillance
on live communications
and stored information”

Can acquire communications
that were encrypted
while traveling over the Internet
once they're on servers



facebook

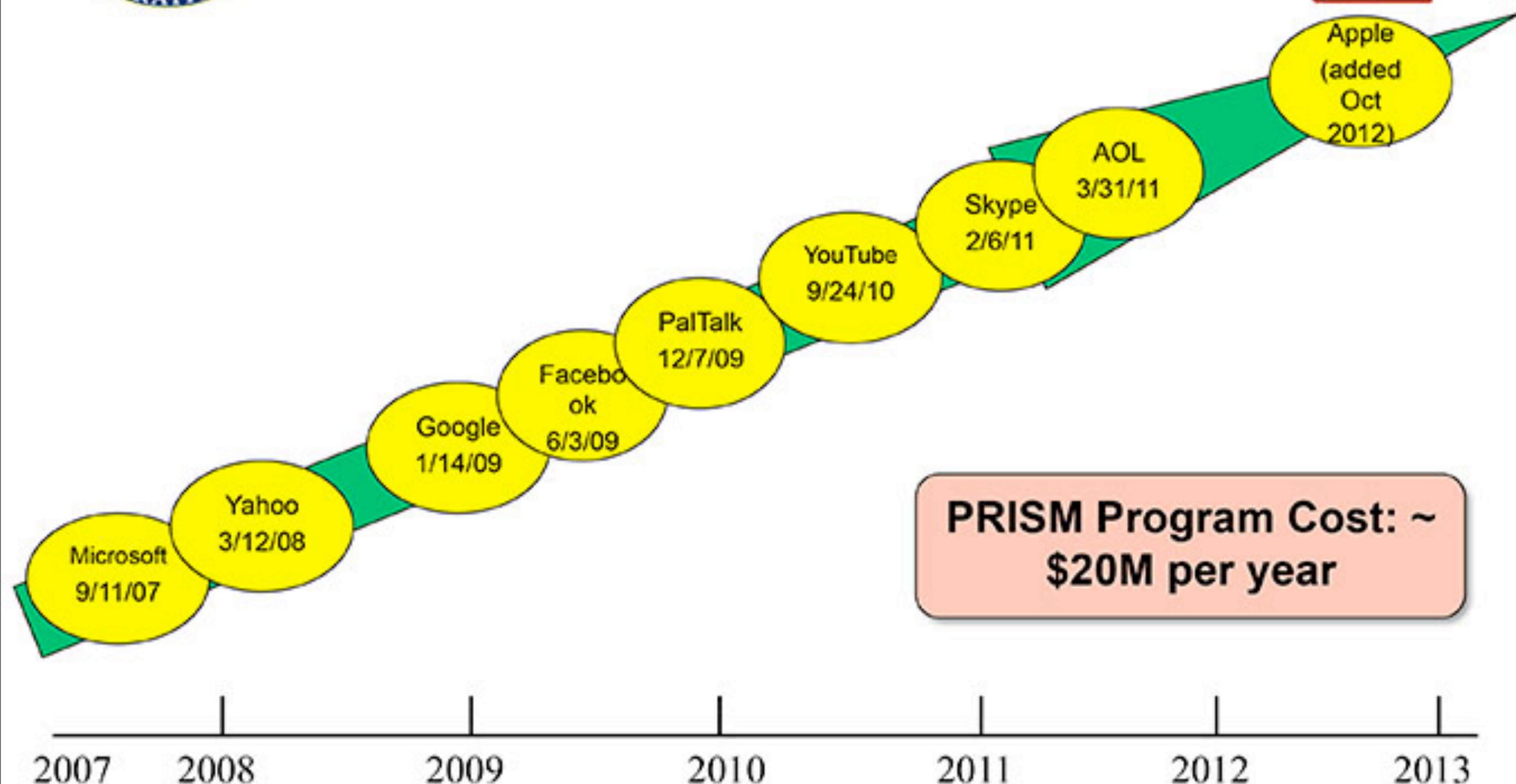


Hotmail

YAHOO!



(TS//SI//NF) Dates When PRISM Collection Began For Each Provider



“98 percent of PRISM production
is based on
Yahoo, Google and Microsoft”

Accounts for 91%
of NSA's Internet traffic
acquired under FISA § 702

Available to low-level NSA analysts

No court approvals needed

Don't need supervisor approval

Must ignore US citizen's data
if analyst is at least 51% sure
he's American

Training materials say
analysts should periodically report
accidental collection of citizen data,
but if they do collect it,
“it's nothing to worry about”

July 17, 2013

John C. Inglis, Deputy Director, NSA

NSA analysts can perform
“a second or third hop query”
through data

Hop 1
A suspect's contacts



Hop 2
Hop 1's contacts



Hop 3
Hop 2's contacts

2011

University of Milan researchers
calculate that on average
everyone on the Internet is
4.74 steps away
from anyone else

Assuming the average person
calls 40 people,
a 3-hop analysis allows the NSA
to mine data on 2.5 M Americans
when investigating 1 suspect

TOP SECRET//SI//ORCON//NOFORN



Hotmail

YAHOO!



(TS//SI//NF) **FAA702 Operations**
Two Types of Collection



Upstream

- Collection of communications on fiber cables and infrastructure as data flows past.
(FAIRVIEW, STORMBREW, BLARNEY, OAKSTAR)

**You
Should
Use Both**

PRISM

- Collection directly from the servers of these U.S. Service Providers: Microsoft, Yahoo, Google, Facebook, PalTalk, AOL, Skype, YouTube, Apple.

TOP SECRET//SI//ORCON//NOFORN

June 6, 2013

theguardian

The top secret rules that allow NSA to
use US data without a warrant

Secret FISA Court documents
show that data gathered
about U.S. citizens
must be destroyed

Secret FISA Court documents
show that data gathered
about U.S. citizens
must be destroyed

... unless circumstances exist
in which it can be
collected, retained, & used

NSA can store
“inadvertently acquired”
domestic communications
if they contain:

- ✓ Foreign intelligence information
 - ✓ Evidence of a crime
 - ✓ Threats of serious harm
- ✓ Encrypted communications
 - ✓ Any other information
that could aid
the NSA's electronic surveillance

June 29, July 9, August 31, September 9

the guardian

DER SPIEGEL

O GLOBO



Who has the NSA been spying on?

NSA spied on ...

France

Turkey

Costa Rica

Italy

Mexico

Nicaragua

Greece

Venezuela

Honduras

Japan

Colombia

Paraguay

Mexico

Ecuador

Chile

South Korea

Argentina

Peru

India

Panama

El Salvador

As well as ...

Google

Brazilian oil company
Petrobras

Al Jazeera
Media Network

Saudi Arabia's
Riyad Bank

Chinese tech company
Huawei

French Ministry of
Foreign Affairs

Society for Worldwide
Interbank Financial
Telecommunication
(SWIFT)

International Atomic
Energy Agency

European Union
embassy

United Nations

In addition, NSA spied on ...

- ✓ Brazilian president Dilma Rousseff
- ✓ Mexican president Peña Nieto
(then a candidate)

NSA sought information on:

Oil, energy, & trade
Corporate espionage

September 5, 2013



theguardian

The New York Times

Revealed: how US and UK spy agencies
defeat internet privacy and security

September 5, 2013



theguardian

The New York Times

Feds Beg NY Times, Pro Publica Not To Reveal That
They've Inserted Backdoors Into Internet Encryption

from the *too-fucking-bad* dept

Hacker News commenter:

“My takeaway from today’s articles:
they’ve backdoored the software,
they’ve backdoored the hardware,
they have a database
of stolen private keys,
they’ve tapped all the cables,
they have zero-days
for pretty much everything.”

<https://news.ycombinator.com/item?id=6338365>

September 7, 2013

DER SPIEGEL

Privacy Scandal: NSA Can Spy on Smart Phone Data

Operating systems

- ✓ BlackBerry
- ✓ iPhone
- ✓ Android

Data

- ✓ Contact lists
- ✓ SMS traffic
- ✓ Notes
- ✓ Location information

TS//SI//REL to USA, FVEY

(S//REL) iPhone Location Services

(U) Who knew in
1984...



TS//SI//REL to USA, FVEY

TS//SI//REL to USA, FVEY

(S//REL) iPhone Location Services

(U) ...that this would
be big brother...



TS//SI//REL to USA, FVEY

TS//SI//REL to USA, FVEY

(S//REL) iPhone Location Services




(U) ...and the
zombies would be
paying customers?



TS//SI//REL to USA, FVEY

(U) Post Processed BES collection



Type Data Type Source Destination

BlackBerry - CMIME Plaintext

EMAIL CONTROL HEADER C2C KEYWORDS CONTENTMETA DECODED_TEXT COMMENTS (0)

From: [redacted] <[redacted]>

To: [redacted] <[redacted]>

Subject: RE: URGENTE: Sorteo del SEM

Email Body

BlackBerry - CMIME

-----Mensaje original-----

De: [redacted]

Enviado el: [redacted]

Para: [redacted]

Asunto: RE: URGENTE: [redacted]

[redacted]

[redacted]

Gracias, [redacted]

S69843880

2098E117

TOP SECRET//COMINT//REL TO USA FVEY

September 11, 2013

the **guardian**

NSA shares raw intelligence including Americans' data with Israel

- Secret deal places no legal limits on use of data by Israelis
- Only official US government communications protected
- Agency insists it complies with rules governing privacy

September 11, 2013

the **guardian**

The NSA is sharing data with Israel. Before filtering out Americans' information.

NSA sends Israel “Raw Sigint”:
“unevaluated and unminimized
transcripts, gists, facsimiles,
telex, voice
and Digital Network Intelligence
metadata and content.”

NSA does not filter data in advance:

“NSA routinely sends ISNU
[the Israeli Sigint National Unit]
minimized and unminimized
raw collection”

When Israel finds
data about a U.S. citizen
“ISNU must inform NSA
immediately”

Israel is allows to retain
“any files containing
the identities of U.S. persons
... for no more than one year.”

However, Israelis are required
to “destroy upon recognition”
any communication
“either to or from
an official of the US government”

Senior NSA official in 2008:

“On the one hand,
the Israelis are extraordinarily good
Sigint partners for us,
but on the other,
they target us
to learn our positions
on Middle East problems ...
A [National Intelligence Estimate]
ranked them as
the third most aggressive
intelligence service against the US.”

Want to know the whole story?

Al Jazeera America

“Timeline of
Edward Snowden’s revelations”

[http://america.aljazeera.com/
articles/multimedia/timeline-
edward-snowden-revelations.html](http://america.aljazeera.com/articles/multimedia/timeline-edward-snowden-revelations.html)

Want to help?



Wikileaks · 2,299,332 like this

August 17 at 3:55pm · 



WikiLeaks releases encrypted versions of upcoming publication data ("insurance") from time to time to nullify attempts at prior restraint.

Please mirror:

WikiLeaks insurance 20130815-A: 3.6Gb <http://wlstorage.net/torrent/wlinsurance-20130815-A.aes256.torrent>

B: 49Gb <http://wlstorage.net/torrent/wlinsurance-20130815-B.aes256.torrent>

C: 349GB <http://wlstorage.net/torrent/wlinsurance-20130815-C.aes256.torrent>



We the People

of the United States, in order to form a more perfect Union, establish justice, insure domestic Tranquillity, provide for the common defence, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our Posterity, do ordain and establish this Constitution for the United States of America.

Article I

Section 1. All legislative Powers herein granted shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives.

Section 2. The House of Representatives shall be composed of Members chosen every second Year by the People of the several States, and the Electors in each State shall have Qualifications requisite for Electors of the most numerous Branch of the State Legislature.

No Person shall be a Representative who shall not have attained to the Age of twenty five Years, and seven Years a Citizen of the United States, and who shall not, when elected, be an Inhabitant of that State in which he shall be chosen.

Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and including Indians not taxed, three fifths of all other Persons. The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten Years, in such Manner as they shall by Law direct. The Number of Representatives shall not exceed one for every thirty thousand, but each State shall have at least one Representative, and until such Enumeration shall be made, the State of New Hampshire shall be entitled to choose three, Massachusetts eight, Rhode Island and Providence Plantations five, Connecticut five, New York six, New Jersey four, Pennsylvania eight, Delaware six, Maryland six, Virginia ten, North Carolina five, South Carolina five and Georgia three.

When vacancies happen in the Representation from any State, the Executive thereof shall issue Writs of Election to fill such Vacancies. The House of Representatives shall chuse their Speaker and other Officers, and shall chuse the other House of Representatives.

Section 3. The Senate of the United States shall be composed of two Senators from each State, chosen by the Legislature thereof, for six Years, and each Senator shall have one Vote.

Immediately after they shall be assembled in consequence of the first Election, they shall be divided as equally as may be into three Clauses, the first of which shall be vacated at the Expiration of the second Year, the second at the Expiration of the fourth Year, and the third at the Expiration of the sixth Year, so that one third may be chosen every second Year; and if Vacancies happen by Resignation, or otherwise, during the Course of the Legislature of any State, the Executive thereof may make temporary Appointments until the next Meeting of the Legislature, which shall then fill such Vacancies.

No Person shall be a Senator who shall not have attained to the Age of thirty Years, and been seven Years a Citizen of the United States, and who shall not, when elected, be an Inhabitant of that State in which he shall be chosen.

The Vice President of the United States shall be the President of the Senate, but he shall not have no Vote, unless he be equally divided. The Senate shall chuse their other Officers, and also a President pro tempore, in the Absence of the Vice President, or when he shall exercise the Office of President of the United States.

The Senate shall have the sole Power to try all Impeachments. When sitting for that Purpose, they shall be on Oath or Affirmation. When the President of the United States is tried, the Chief Justice shall preside. And no Person shall be convicted without the Concurrence of two thirds of the Members present.

Judgment in Cases of Impeachment shall not extend further than to removal from Office, and Disqualification to hold and enjoy any Office of Honor, Trust or Profit under the United States; but the Party convicted shall nevertheless be liable and subject to Indictment, Trial, Judgment and Punishment according to Law.

Section 4. The Times, Places and Manner of holding Elections for Senators and Representatives, shall be prescribed in each State by the Legislature thereof; but the Congress may at any time by Law make or alter such Regulations, except as to the Places of choosing Senators.

The Congress shall assemble at least once in every Year, and such Meeting shall be in the first Monday of December, unless they shall by Law appoint a different Day.

Section 5. Each House shall be the Judge of the Elections, Returns and Qualifications of its own Members, and a Majority of each shall constitute a Quorum to do Business, but a smaller Number may adjourn from day to day, and may be authorized to compel the Attendance of absent Members, in such Manner and under such Penalties as each House may provide.

Each House may determine the Rules of its Proceedings, punish its Members for disorderly Behaviour, and, with the Concurrence of two thirds, expel a Member.

Each House shall keep a Journal of its Proceedings, and from time to time publish the same, excepting such Parts as may in their Judgment require Secrecy; and the Yeas and Nays of the Members of either House on any Question shall, at the Desire of one fifth of those Present, be entered on the Journal.

Neither House, during the Session of Congress, shall, without the Consent of the other, adjourn for more than three Days, nor to any other Place than that in which the two Houses shall be sitting.

Section 6. The Senators and Representatives shall receive a Compensation for their Services, to be ascertained by Law, and paid out of the Treasury of the United States. They shall in all Cases, except Treason, Felony and Breach of the Peace, be privileged from Arrest during their Attendance at the Session of their respective Houses, and in going to and returning from the same, and for any Speech or Debate in either House; they shall not be questioned in any other Place.

No Senator or Representative shall, during the Time for which he was elected, be appointed to any civil Office under the Authority of the United States, which shall have been created, or the Emoluments whereof shall have been increased during such Time; and no Person holding any Office under the United States, shall be a Senator or Representative during his Continuance in Office.

Section 7. All Bills for raising Revenue shall originate in the House of Representatives; but the Senate may propose or concur with Amendments as to the Matter thereof. Every Bill which shall have passed by both Houses, shall before it becomes Law, be presented to the President of the

We the People *of the United States, in order to form a more perfect Union, establish justice,*

Amendment IV

*The right of the people to be secure
in their persons, houses, papers, and effects,
against unreasonable searches and seizures,
shall not be violated,
and no Warrants shall issue,
but upon probable cause,
supported by Oath or affirmation,
and particularly describing
the place to be searched,
and the persons or things to be seized.*

No Senator or Representative, during the term for which he was elected, be appointed to any civil office under the authority of the United States, which shall have been created, or the emolument thereof shall have been increased during such term, and no person holding any office under the United States, shall be a Senator or Representative during his continuance in office.

Exceptions to warrant requirement

- ✓ Consent

- ✓ Plain view

- ✓ Incident to a lawful arrest

- ✓ Exigent circumstances

- ✓ Places that merit
low levels of protection
(open fields, cars, borders, &tc.)



Charles I, 1625-1649

American Colonies





James Otis:
“A man’s home
is his castle.”



Then



Now



Law
is like
CONCRETE



Olmstead v US (1928)

Property of Museum of History & Industry, Seattle

A black and white photograph of a man in a dark suit, white shirt, and striped tie. He is sitting at a desk, holding a vintage telephone receiver to his ear with his left hand and the base of the telephone with his right hand. He is looking directly at the camera with a serious expression. The background is a plain, light-colored wall.

Olmstead v US (1928)

US v Katz (1967)

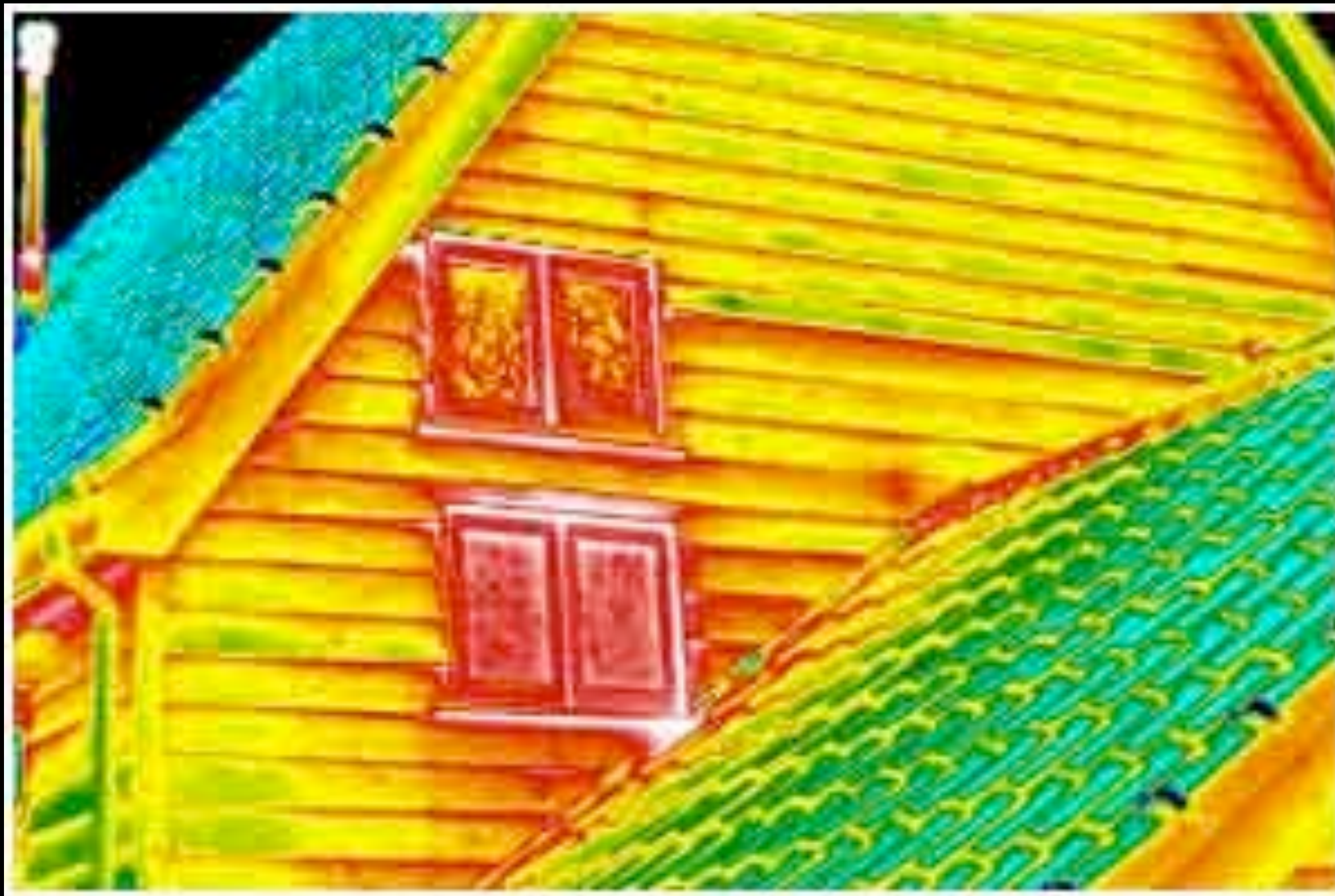




Kyllo v US (2001)



Kyllo v US (2001)



Kyllo v US (2001)

U.S. v Jones (2012)



U.S. v Jones (2012)



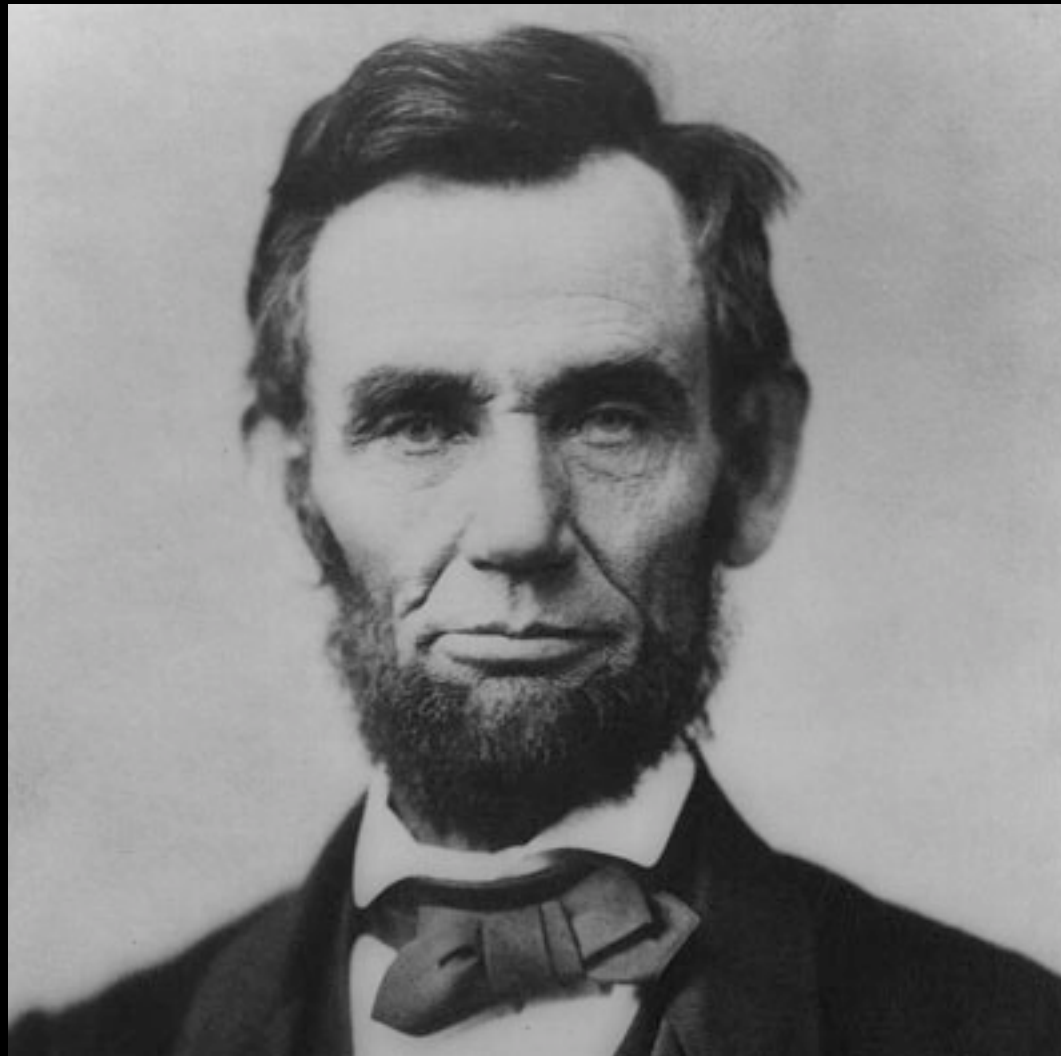
Civil Liberties & Crisis



Cicero:
*Inter arma enim
silent leges*
(In times of war,
the law
falls silent)

1861

President Lincoln suspends Habeas Corpus

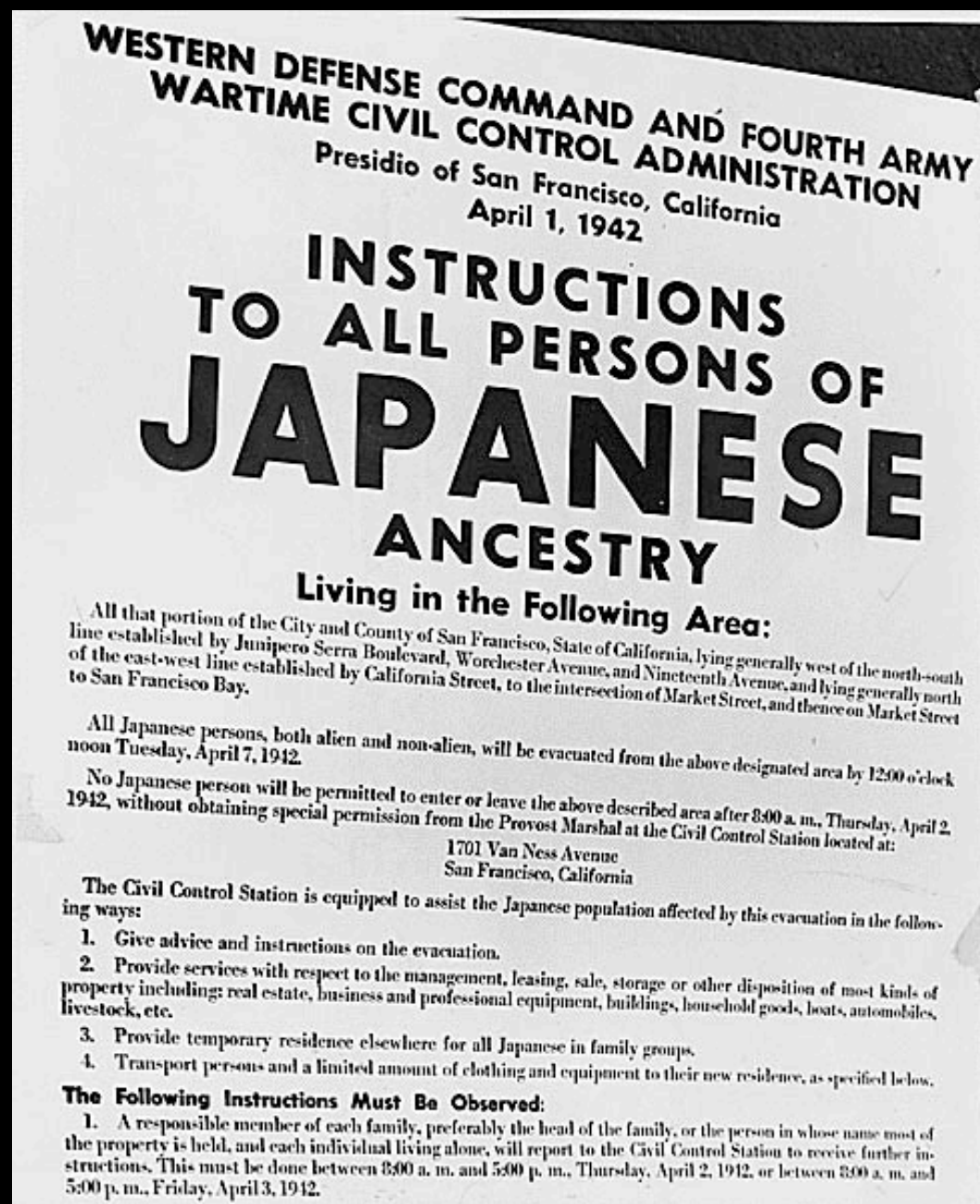


World War I Espionage Act Restrictions on German & Russian immigrants



WWII

Internment of Japanese Americans Military Tribunals



Cold War

Surveillance & investigation of political groups

House Un-American Activities Committee



Vietnam War & Civil Rights Movements

Targeting of protesters

Expansion of FBI powers



9/11



How is
9/11
different?

Technology...

- ✓ changes how threats operate
- ✓ changes how governments respond

Nature of threats different

- ✓ Non-state-sponsored

- ✓ Less hierarchical

- ✓ Dispersed

- ✓ Anonymous

Our response is different:

Ubiquitous surveillance

US Government's Response

PATRIOT Act § 215
FISA Title VII § 702
National Security Letters

2001

An Act

To deter and punish terrorist acts in the United States and around the world,
to enhance law enforcement investigatory tools, and for other purposes.

*Be it enacted by the Senate and House of Representatives of
the United States of America in Congress assembled,*

SECTION 1. SHORT TITLE AND TABLE OF CONTENTS.

(a) **SHORT TITLE.**—This Act may be cited as the “Uniting and
Strengthening America by Providing Appropriate Tools Required
to Intercept and Obstruct Terrorism (USA PATRIOT ACT) Act
of 2001”.

2001

SEC. 215. ACCESS TO RECORDS AND OTHER ITEMS UNDER THE FOREIGN INTELLIGENCE SURVEILLANCE ACT.

Title V of the Foreign Intelligence Surveillance Act of 1978 (50 U.S.C. 1861 et seq.) is amended by striking sections 501 through 503 and inserting the following:

“SEC. 501. ACCESS TO CERTAIN BUSINESS RECORDS FOR FOREIGN INTELLIGENCE AND INTERNATIONAL TERRORISM INVESTIGATIONS.

Allows government to get
“any tangible things ... relevant to a ...
national security investigation ...
to protect against
international terrorism
or clandestine intelligence activities”

Expands *types* of records

Before

Only:

- ✓ Hotel & motel records
- ✓ Car & truck rentals
- ✓ Storage rentals



Now

“Any tangible things”

Easier to get FISA warrant

Before

FBI had to show
“specific
articulable facts”
that the subject
was a
“foreign power
or the agent of
a foreign power”



Now

Things are sought
for a foreign
intelligence
investigation

Expanded government access
without probable cause of a crime

- ✓ Business documents
- ✓ 3rd party documents
- ✓ Electronic communications

FBI given greater latitude
to go on “fishing expeditions”

PLEASE BE AWARE that under Section 215 of the USA PATRIOT ACT agents of the Federal Government are empowered to monitor your use of the Internet and to have access to knowing what library books and other materials you use and check out; be aware also that Librarians are prohibited upon of prosecution from letting you know that the Government is investigating your reading habits and computer use. The Library and its staff will do whatever is possible to protect your privacy.

1978 / Amended in 2008

PUBLIC LAW 95-511—OCT. 25, 1978

92 STAT. 1783

Public Law 95-511 95th Congress

An Act

To authorize electronic surveillance to obtain foreign intelligence information.

Oct. 25, 1978
[S. 1566]

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That this Act may be cited as the “Foreign Intelligence Surveillance Act of 1978”.

Foreign
Intelligence
Surveillance Act
of 1978.
50 USC 1801
note.

TABLE OF CONTENTS

TITLE I—ELECTRONIC SURVEILLANCE WITHIN THE UNITED STATES FOR FOREIGN INTELLIGENCE PURPOSES

1978 / Amended in 2008

An Act

To amend the Foreign Intelligence Surveillance Act of 1978 to establish a procedure for authorizing certain acquisitions of foreign intelligence, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) **SHORT TITLE.**—This Act may be cited as the “Foreign Intelligence Surveillance Act of 1978 Amendments Act of 2008” or the “FISA Amendments Act of 2008”.

1978 / Amended in 2008

“SEC. 702. PROCEDURES FOR TARGETING CERTAIN PERSONS OUTSIDE THE UNITED STATES OTHER THAN UNITED STATES PERSONS.

“(a) AUTHORIZATION.—Notwithstanding any other provision of law, upon the issuance of an order in accordance with subsection (i)(3) or a determination under subsection (c)(2), the Attorney General and the Director of National Intelligence may authorize jointly, for a period of up to 1 year from the effective date of the authorization, the targeting of persons reasonably believed to be located outside the United States to acquire foreign intelligence information.

Allows government to collect
electronic communications

Targets must be foreign

Must relate to
national security threat

FISA Court

Appointed by SCOTUS Chief Justice

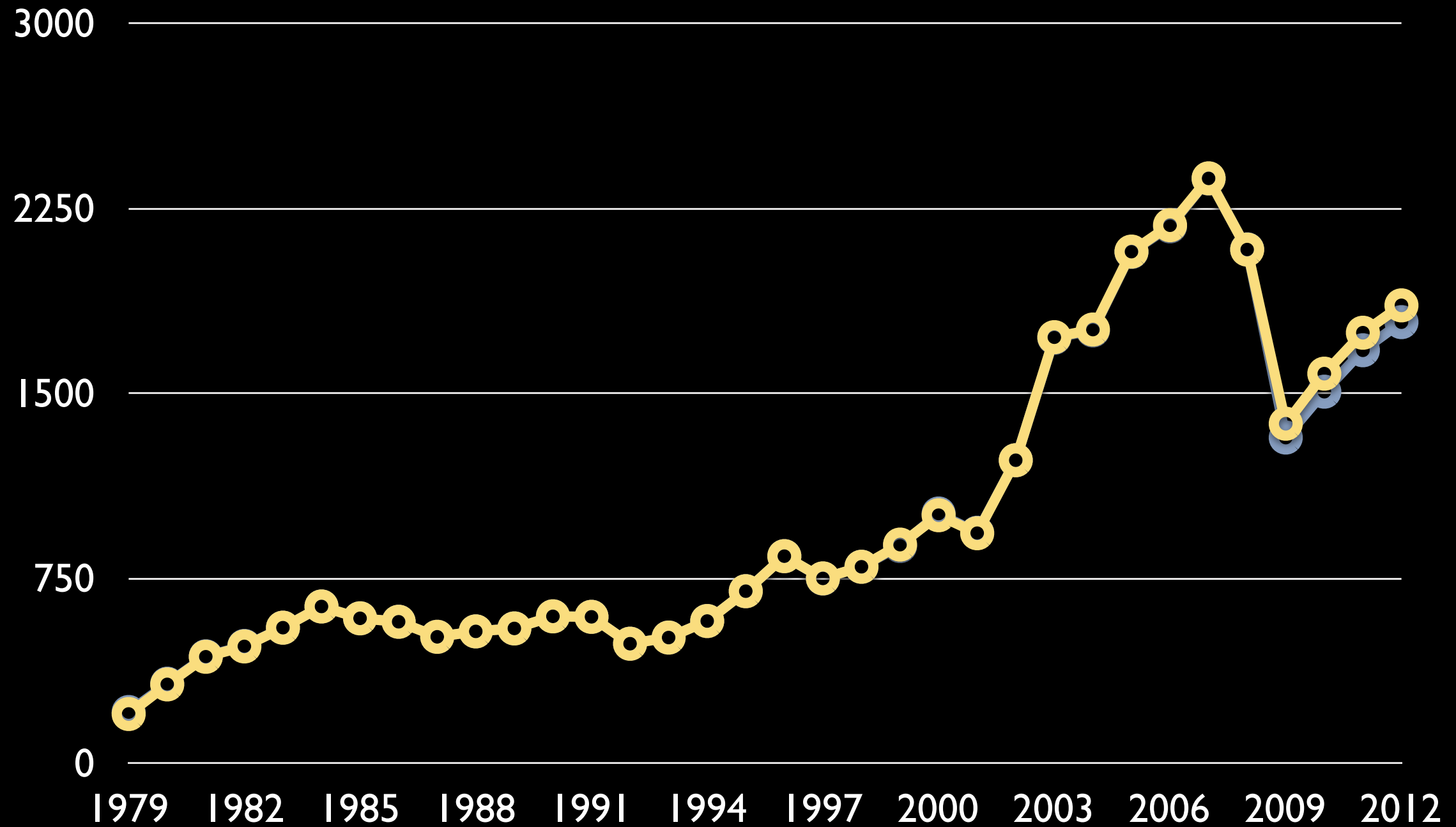
Meets in secret

Oversees application of FISA

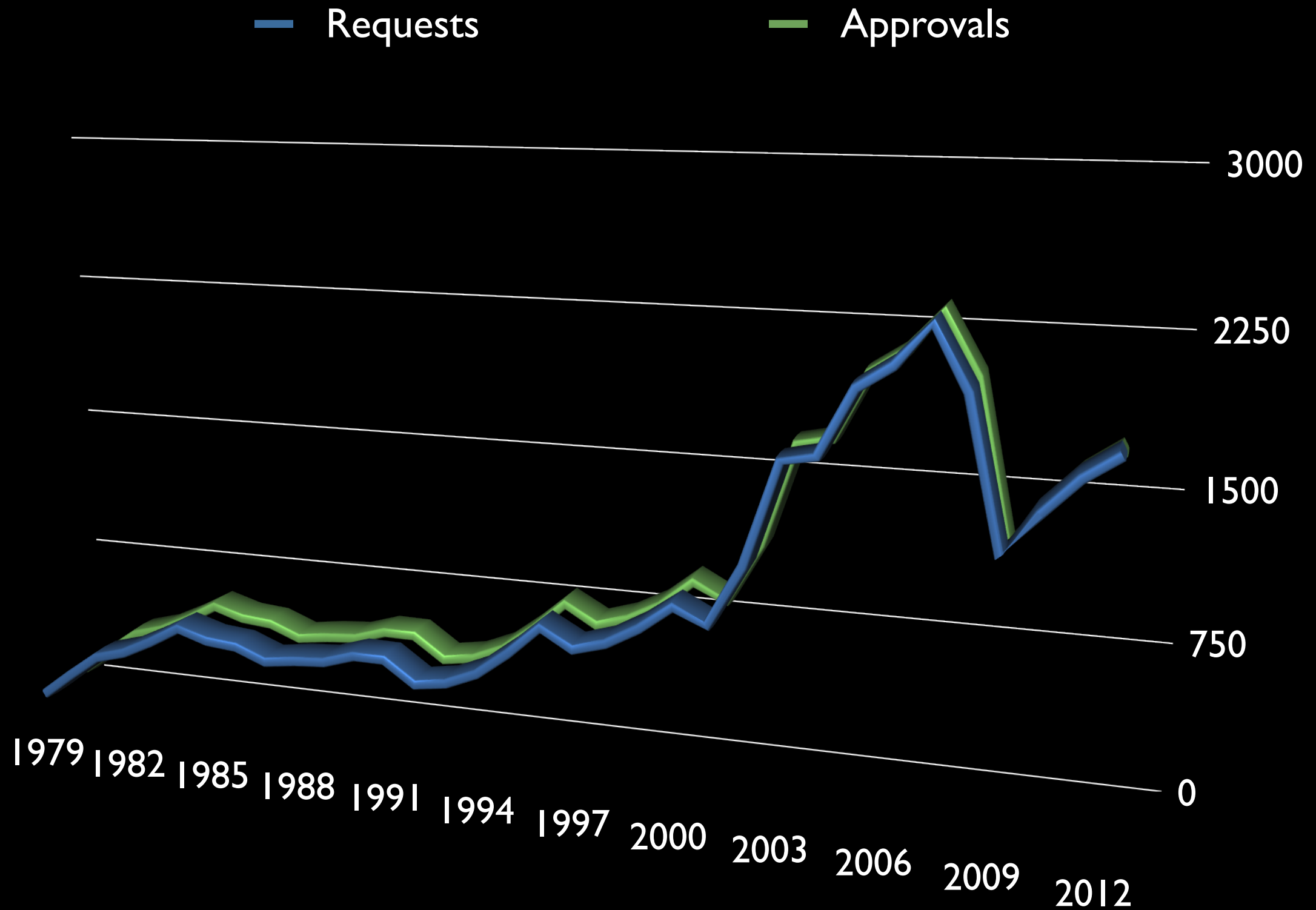
Foreign Intelligence Surveillance Act

○ Requests

○ Approvals



Foreign Intelligence Surveillance Act



1978

Amended in 1986, 1993, 2001, 2006

National Security Letters

Can request only
non-content information, e.g.:

- ✓ Store purchases
- ✓ Bank deposits & withdrawals
 - ✓ Phone numbers dialed
 - ✓ Website visits & searches
- ✓ Sender/recipient email addresses



U.S. Department of Justice

Federal Bureau of Investigation

In Reply, Please Refer to
File No. NH-43906

New Haven Division
600 State Street
New Haven, Connecticut 06511

May 19, 2005

Mr. Kenneth Sutton
Systems and Telecommunication Manager
Library Connection, Inc.
599 Matianuck Avenue
Windsor, Connecticut

Dear Mr. Sutton:

Under the authority of Executive Order 12333, dated December 4, 1981, and pursuant to Title 18, United States Code (U.S.C.), Section 2709 (as amended, October 26, 2001), you are hereby directed to provide to the Federal Bureau of Investigation (FBI) any and all subscriber information, billing information and access logs of any person or entity related to the following:

IP Address: 216.47.180.118, Date: 02/15/2005; Time: 16:00 to 16:45 (PM) EST

In accordance with Title 18, U.S.C., Section 2709(b), I certify that the information sought is relevant to an authorized investigation to protect against international terrorism or clandestine intelligence activities, and that such an investigation of a United States person is not conducted solely on the basis of activities protected by the first amendment to the Constitution of the United States.

You are further advised that Title 18, U.S.C., Section 2709(c), prohibits any officer, employee or agent of yours from disclosing to any person that the FBI has sought or obtained access to information or records under these provisions.

You are requested to provide records responsive to this request personally to a representative of the New Haven field office of the FBI. Electronic versions of the records are requested, if available. Any questions you have regarding this request should be directed only to the New Haven field office. Due to security considerations, you should neither send the records through the mail nor disclose the substance of this request in any telephone conversation or electronic communication.

Non-expiring gag order
Independent of legal courts
Not a subpoena

Used by

✓ FBI

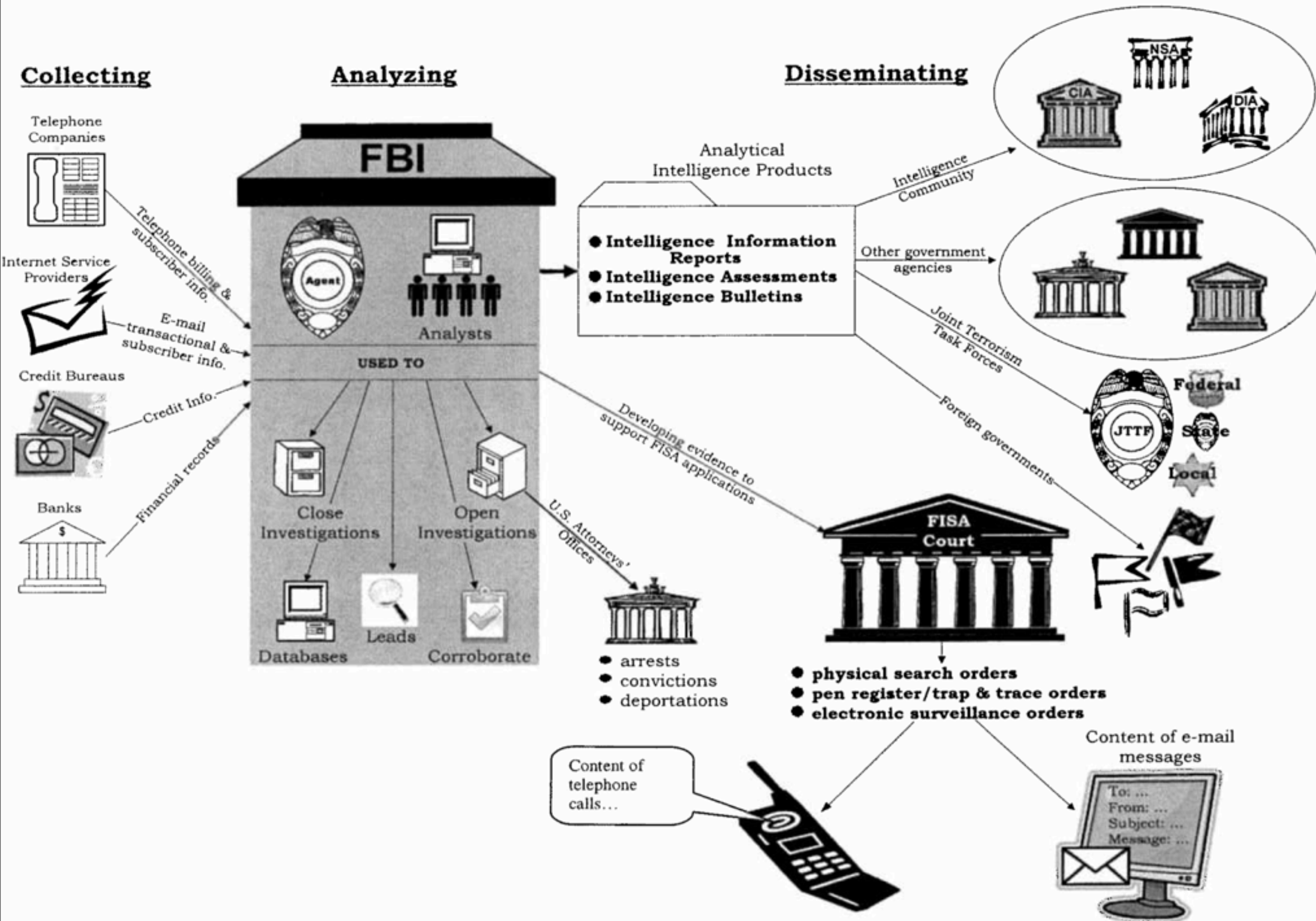
✓ CIA

✓ Pentagon

2003–2006

FBI issued 192,499 NSL requests

How the FBI Uses National Security Letters



There are some tradeoffs involved
... It's important to recognize
that you can't have 100% security,
and also then have 100% privacy,
and zero inconvenience.
We're going to have to make
some choices as a society.



It is neither desirable
nor is it remotely likely
that civil liberty will occupy
as favored a position in wartime
as it does in peacetime.
The laws will thus
not be silent in time of war,
but they will speak
with a somewhat different voice.



William Rehnquist,
Former Supreme Court
Chief Justice

The solution: encryption



Who's the threat?

The guy in the coffee shop?

Corporations?

The government?

Thieves & Snoops



The Goal:

Prevent the snoop
from reading your stuff

Not worried about
corporations & the government

Email over HTTPS

- ✓ Gmail
- ✓ ~~Hotmail~~ Outlook.com
- ✓ Yahoo Mail*

* HTTPS not on by default

IM

- ✓ Skype
- ✓ Google ~~Chat~~ Hangouts
- ✓ Pidgin or Adium with OTR
(Off the Record)



Extensions

- ✓ HTTPS Everywhere
- ✓ Force-TLS

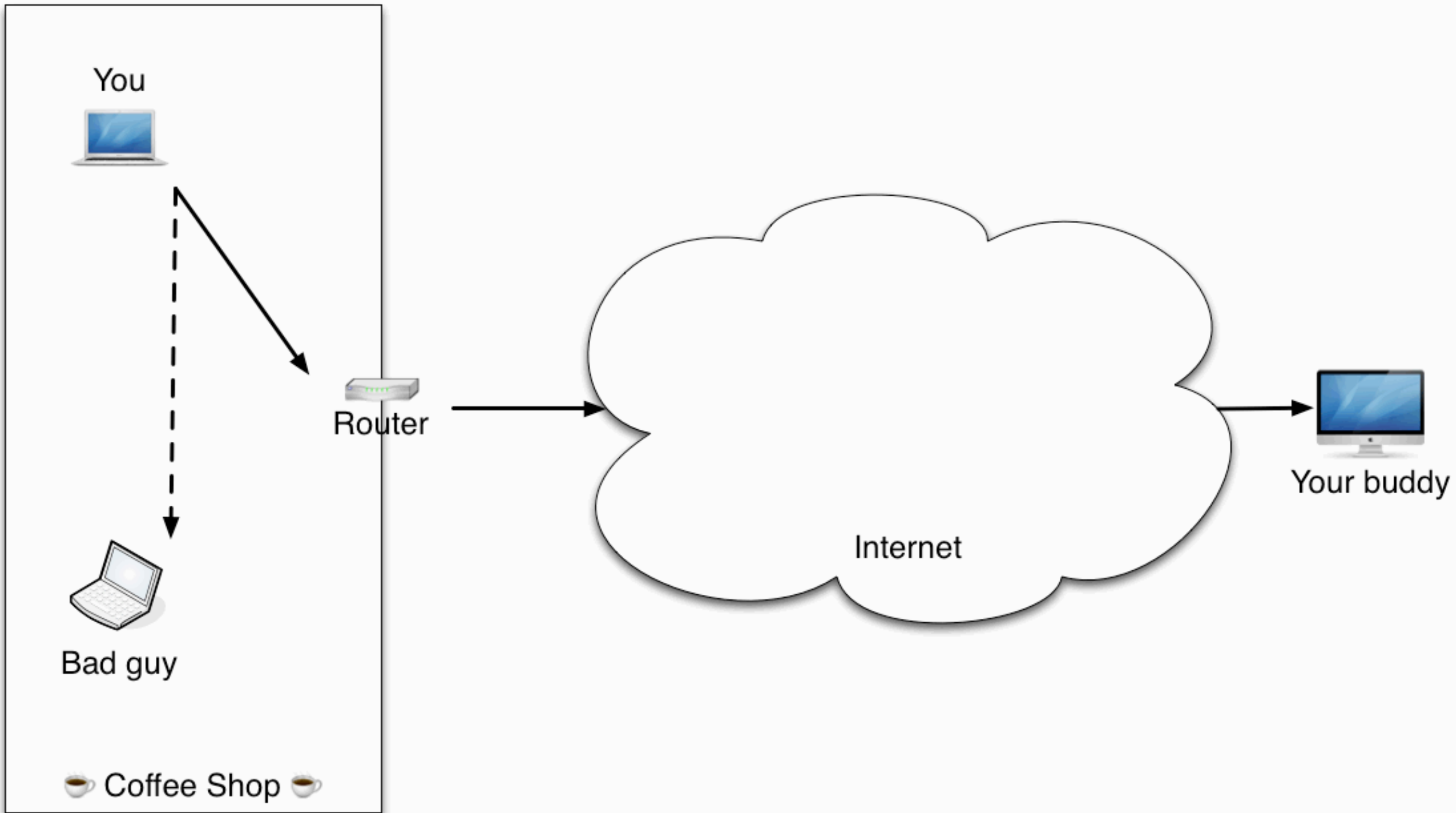


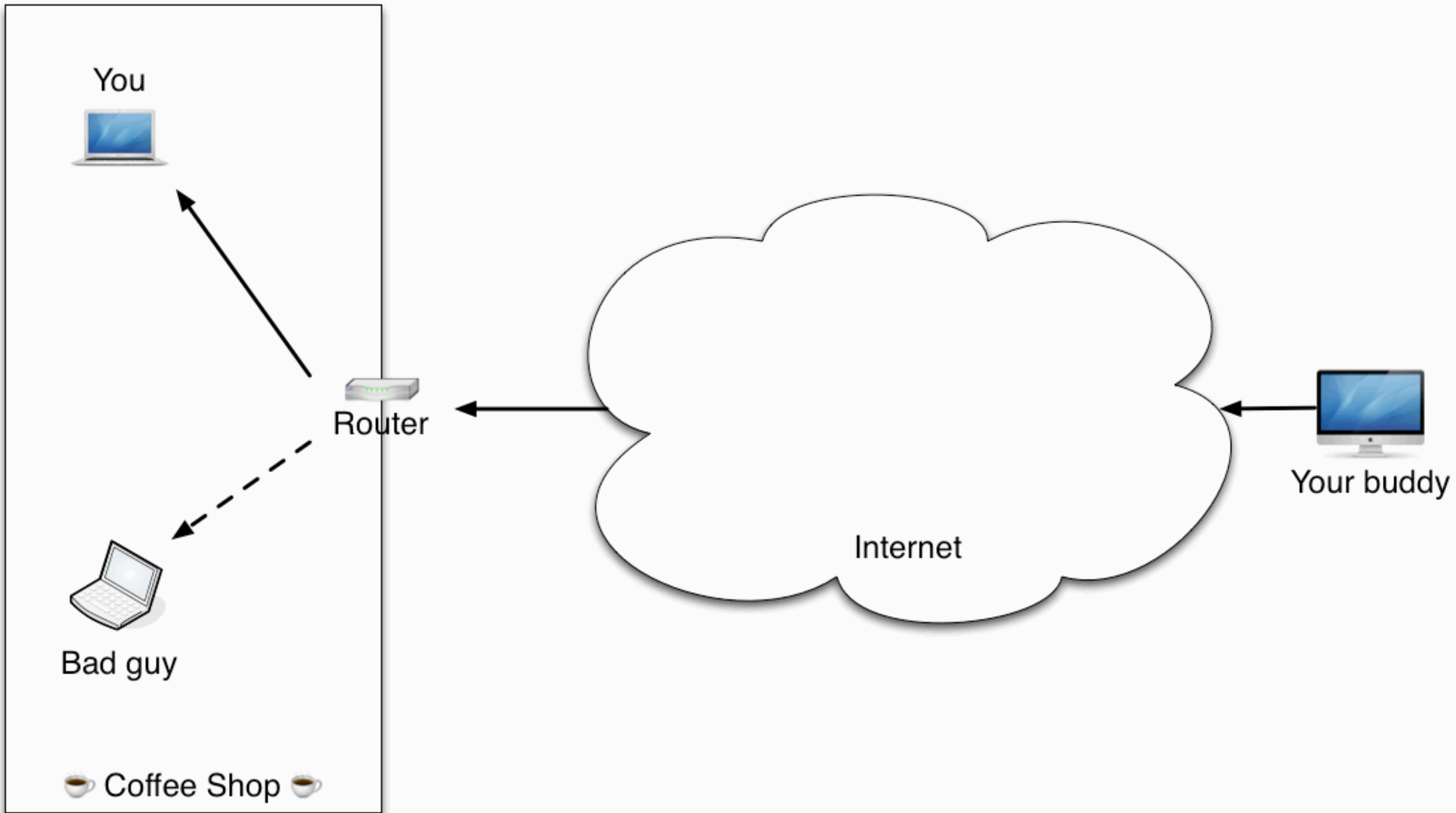
Extensions

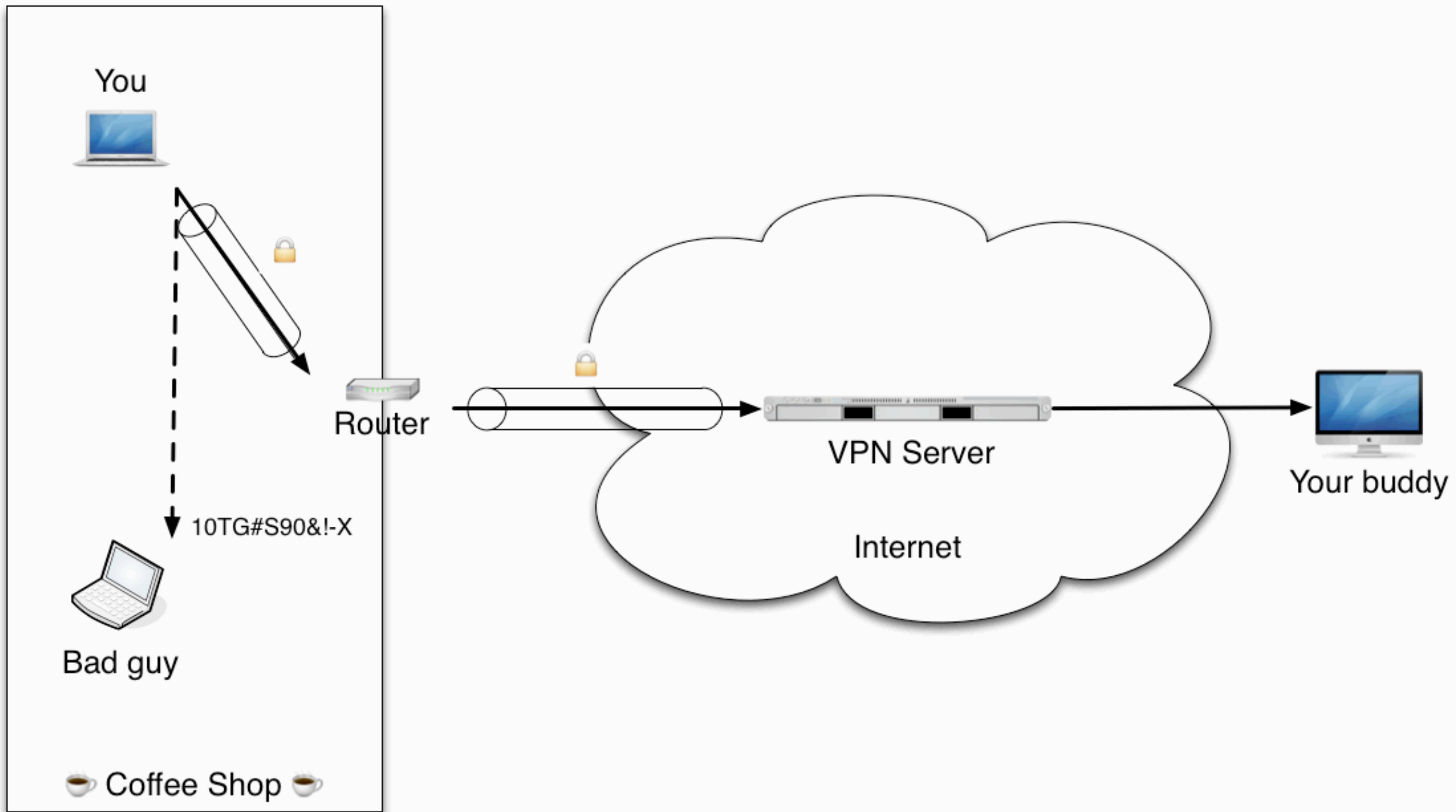
- ✓ Secure Login Helper
- ✓ KB SSL Enforcer

VPN
(*Virtual Private Network*)
encrypts all Internet traffic
in an encrypted tunnel
between you & the VPN server

After that,
it's not in the encrypted tunnel







StrongVPN
www.strongvpn.com
\$7/month

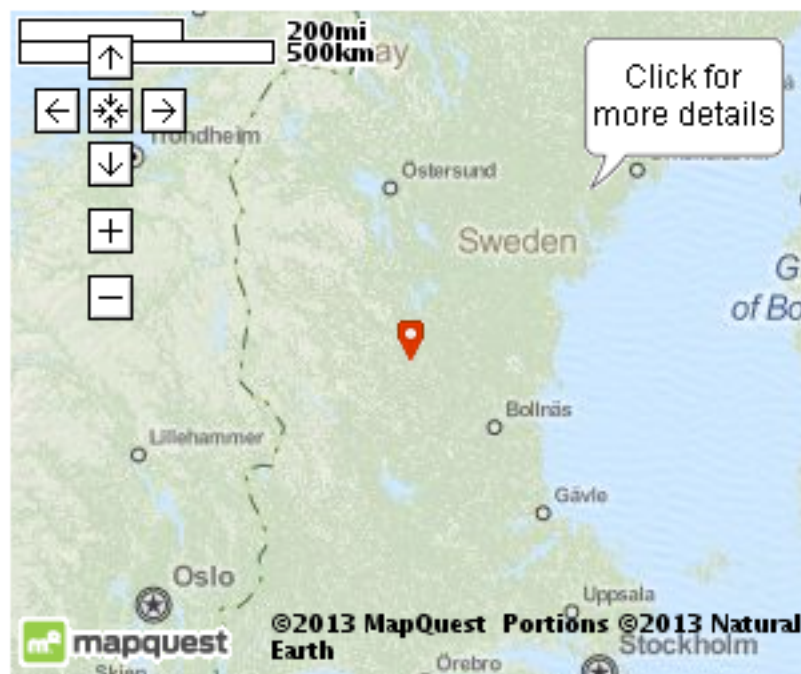
VPNtunnel
www.vpntunnel.com
5€/month



[My IP](#) | [IP Lookup](#) | [Blacklist Check](#) | [Trace Email](#) | [Speed Test](#) | [Hide IP](#) | [Change IP](#) | [IP Tools](#) | [FAQs](#) | [Forums](#)

[Search](#)

What Is My IP Address? (Now detects many [proxy servers](#))



Location not accurate? [Update your IP location](#)

IP Information: **5.254.129.67**

ISP: Netalia AB

Organization: Portlane Networks AB

Connection: [Broadband](#)

Services: [None Detected](#)

Country: Sweden

Don't want this ↑↑↑ known? [Hide your IP details](#)

5.254.129.67

[Additional IP Details](#)



My IP | IP Lookup | Blacklist Check | Trace Email | Speed Test | Hide IP | Change IP | IP Tools | FAQs | Forums | Search

What Is My IP Address? (Now detects many [proxy servers](#))



Location not accurate? [Update your IP location](#)

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Country: Sweden

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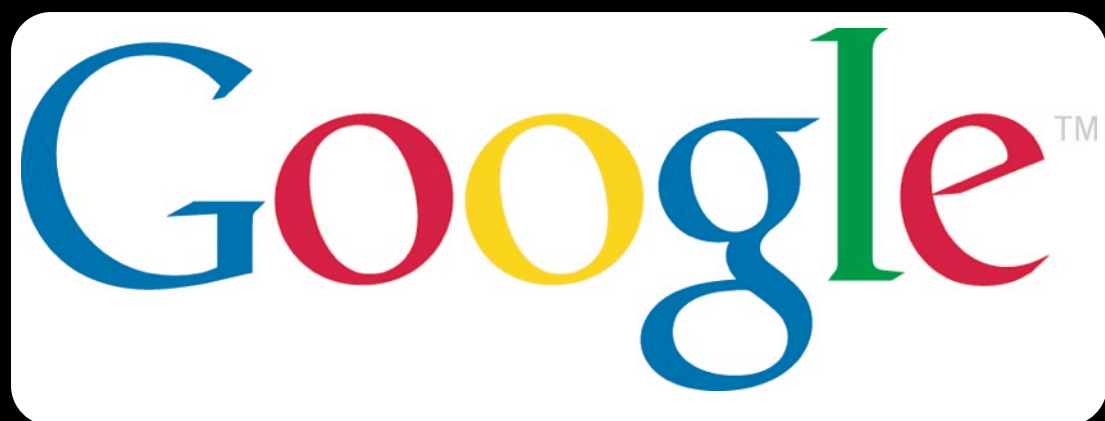
5.254.129.67

Additional IP Details

No logging!



Corporations



The Goal:

Stop getting tracked
by corporations

Not a defense
against snoops or the government

If you're not paying for a service,
you're the product,
not the customer

Don't give your data away

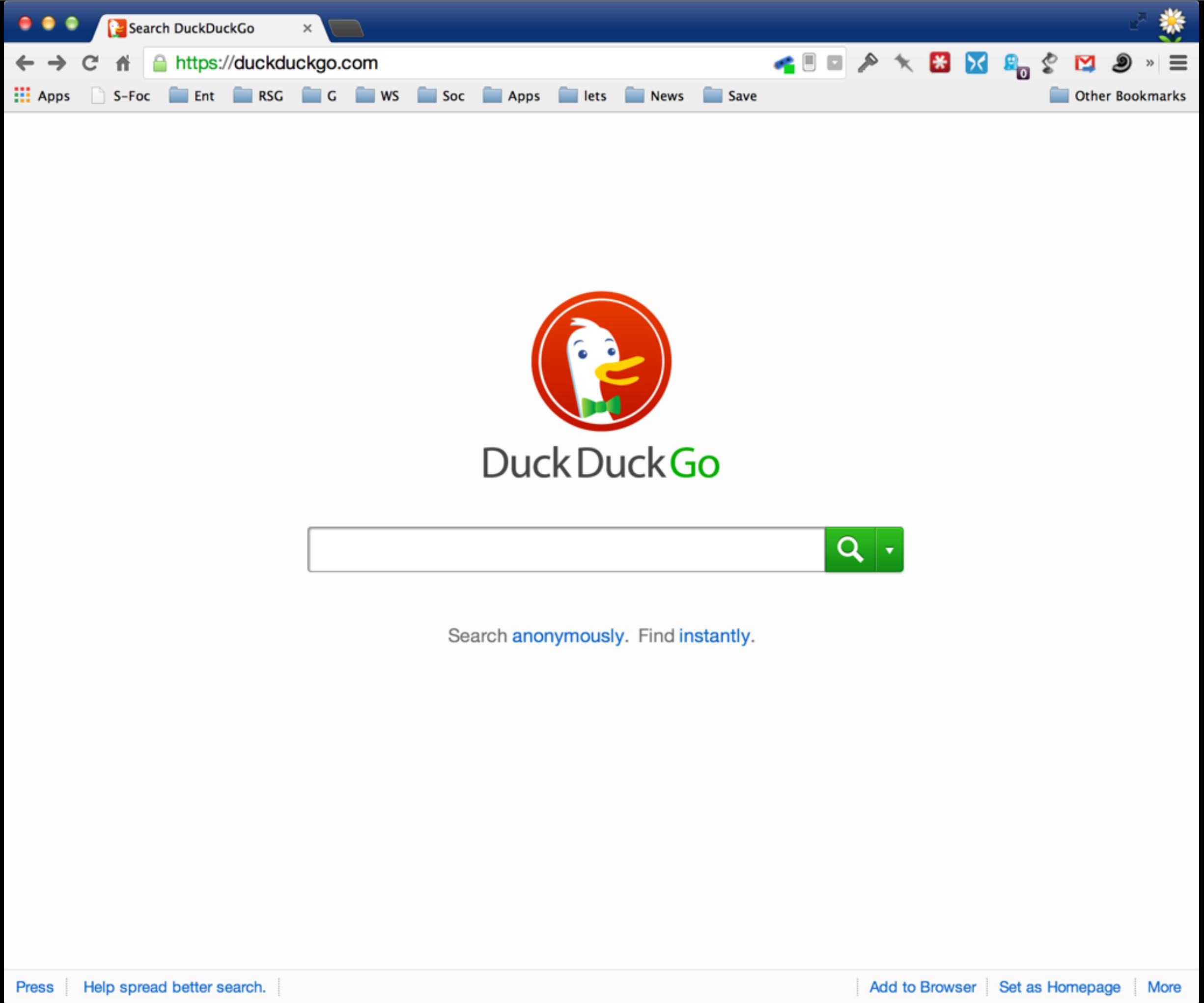


Minimize tracking






Duck Duck Go
www.duckduckgo.com



missouri scholars academy x

https://duckduckgo.com/?q=missouri+scholars+academy

AppsS-FocEntRSGGWSocAppsletsNewsSaveOther Bookmarks



missouri scholars academy

More


Missouri Scholars Academy

Missouri Scholars Academy, or MSA, is a three-week residential summer program held on the University of Missouri campus in Columbia, Missouri for 330 of Missouri's top rising high school juniors.

More at Wikipedia

Education in Missouri

University of Missouri



Missouri Scholars Academy

A three-week academic program for 330 of Missouri's gifted students who are ready to begin their junior year in high school. The **academy** is a residential program held on the campus of the University of Missouri-Columbia.

moscholars.org

More from moscholars.org

Missouri Scholars Academy - Camp | Precollege | University of ...

Sunday, June 09, 2013 - Saturday, June 29, 2013 The **Missouri Scholars Academy** is a three-week academic program for 330 of Missouri's gifted students who are ready to begin their junior year in high school.

musis1.missouri.edu/precollege/camp.cfm?camp=Missouri Schol...

More from musis1.missouri.edu

[PDF] Missouri Scholars Academy

Missouri Scholars Academy. What It Is. The **Missouri Scholars Academy** is a three-week, residential summer program held on the Columbia campus of the University of Missouri.

dese.mo.gov/divimprove/gifted/documents/mo_scholars...

More from dese.mo.gov

Missouri Scholars Academy | Facebook

Missouri Scholars Academy. 265 likes · 9 talking about this.

facebook.com/MissouriScholarsAcademy

More from facebook.com

Missouri Scholars Academy - College Confidential

Does anyone know the cutoff PSAT and PLAN scores for the **Missouri Scholars Academy** thing this year?

Add to Browser

Give feedback

Try this search on:

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CollegeConfidential ...

Vimeo

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LinkedIn

Urban Dictionary

Manage Hiding


Sunday, October 6, 13

“We don’t send your searches
to other sites.
Or store
any personal information at all.”

 Add Account X

Basic Advanced Proxy

Login Options

Protocol:  XMPP ▼

Username: newuser

Domain: dukgo.com

Resource: Home

Password: ●●●●●●●●

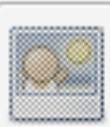
☒ Remember password

User Options

Local alias: New User

☐ New mail notifications

☐ Use this buddy icon for this account:

 Remove

☒ Create this new account on the server

Cancel Add

DuckDuckGo
XMPP/Jabber service
<http://chnsa.ws/ee>



Ghostery

www.ghostery.com

1,300+ companies in its database

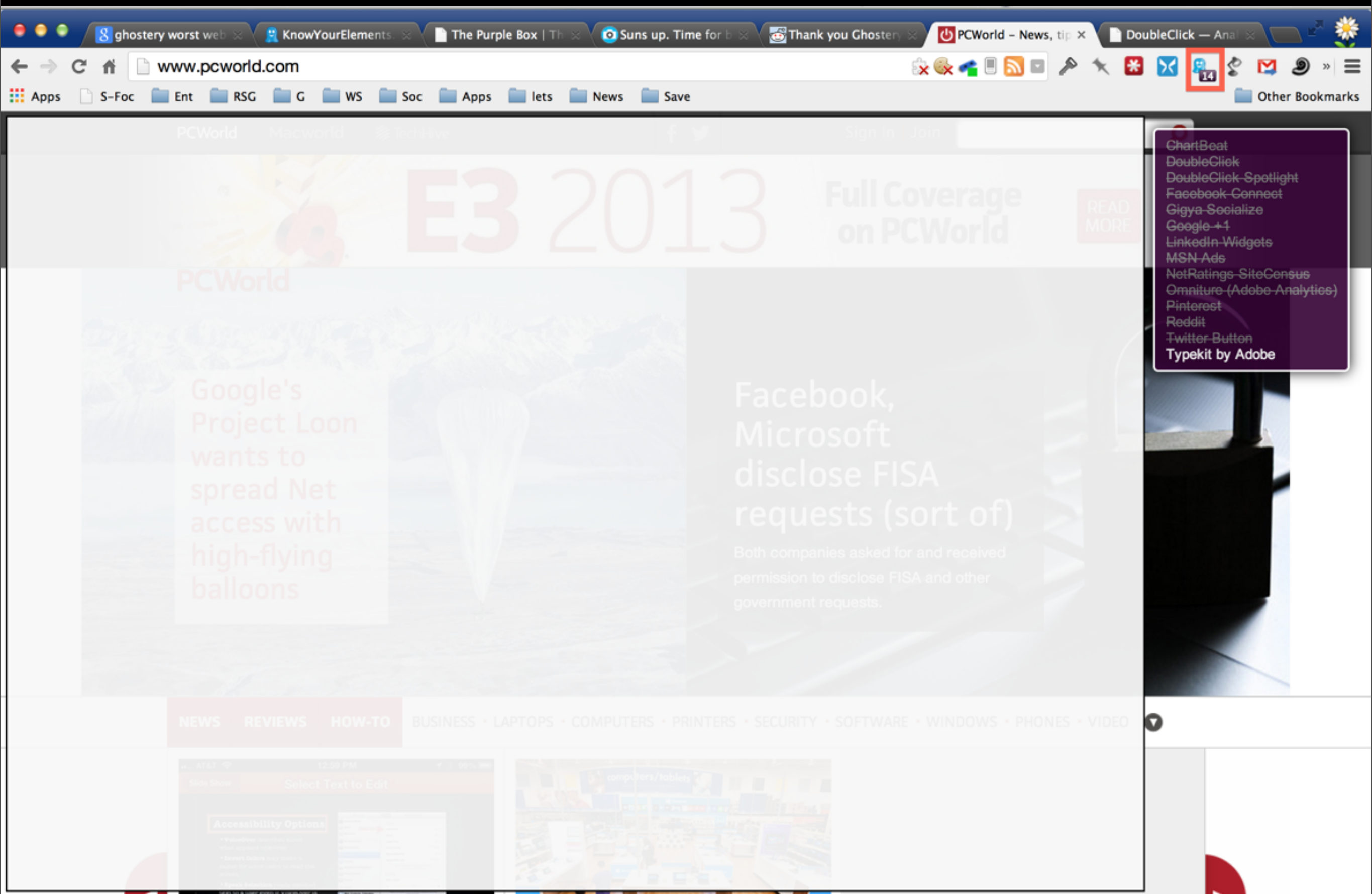
2,800+ individual tracking elements

- ✓ Advertiser
- ✓ Analytics
- ✓ Beacon
- ✓ Widget
- ✓ Privacy

Rank ▾	Name ⇅	Type ⇅	Rank Change	Count
1	Google Analytics	AN	=	112
2	Google Adsense	AD	=	39.5
3	Facebook Connect	W	=	35
4	Facebook Social Plugins	W	=	32.2
5	Google +1	W	=	31.1
6	ScoreCard Research Beacon	B	=	25.4
7	DoubleClick	AD	=	23
8	Twitter Button	W	=	19.9
9	Quantcast	AD	=	17.3
10	AddThis	W	=	16.8
11	Omniure (Adobe Analytics)	B	=	10.2
12	OpenX	AD	=	9.3
13	Google AdWords Conversion	AD	=	8
14	Amazon Associates	AD	↑	7.1
15	ShareThis	W	↓	7

AdBrite
Adroit Digital Solutions
Advertising.com
AMP Platform
AppNexus
Audience Science
BlueKai
Brilig
ChartBeat
ChoiceStream
Dataium
DoubleClick
DoubleClick Bid Manager
Drawbridge
Evidon Notice
eXelate
Facebook Connect
Facebook Exchange (FBX)
Facebook Social Plugins
Gigya Socialize
Google +1
Google Adsense
Google Analytics
i-Behavior
Intent Media
KruX Digital
LinkedIn Widgets
Lotame
Media Innovation Group
MediaMind
MSN Ads
NextAction
Omniure
RapLeaf
Right Media
Rocket Fuel
ScoreCard Research Beacon
Tapad
TargusInfo
TradeDesk
Turn
Twitter Button
Typekit by Adobe
VigLink

24/7 Media
[x+1]
Adap.tv
AdBrite
AdMeld
Adometry
AdSafe
ADTECH
Advertising.com
Aggregate Knowledge
AMP Platform
AppNexus
Audience Science
Bizo
BlueKai
BrightRoll
Brilig
ChoiceStream
ContextWeb
CoreAudience
Criteo
DataXu
Datran
Digilant
DoubleClick
Drawbridge
Evidon Notice
eXelate
Google Adsense
Google AdWords Conversion
Google Analytics
i-Behavior
Intent Media
Invite Media
LeadBack
Lotame
Media Innovation Group
Media6Degrees
MediaMath
NetRatings SiteCensus
NextAction
nPario
OpenX
PubMatic
Quantcast
Quantcast Notice
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Rocket Fuel
Rubicon
ScoreCard Research Beacon
Tacoda
Tapad
TargusInfo
TidalTV
TradeDesk



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www.pcworld.com

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E3 2013 Full on P

PCWorld

Google's Project Loon wants to spread Net access with high-flying balloons

Facebook, Microsoft disclose FSA requests (

Both companies asked for and received permission to disclose FSA and other government requests.

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AT&T 12:55 PM 99% Slide Show Select Text to Edit Accessibility Options

computers/tablets

Ghostery found the following:

ChartBeat more info

http://static.chartbeat.com/js/chartbeat.js

DoubleClick more info

http://ad.doubleclick.net/ad/pcw-main-trackingpixel/...
http://ad.doubleclick.net/ad/pcw-main-trackingpixel/...

DoubleClick Spotlight more info

http://ad.doubleclick.net/activity;dc_pixel_url=idgt.e...

Facebook Connect more info

http://connect.facebook.net/en_US/all.js#xfbml=1&a...
http://connect.facebook.net/en_GB/all.js

Gigya Socialize more info

http://cdn.gigya.com/js/socialize.js?apiKey=2_cyT43n...

Edit Blocking Options

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PCWorld

Google's Project Loon wants to spread Net access with high-flying balloons

Facebook, Microsoft disclose F requests (s

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Slide Show Select Text to Edit
Accessibility Options
computers/tablets

Ghostery found the following:

- <http://secure-us.imrworldwide.com/cgi-bin/m?ci=us...>
- Omniture (Adobe Analytics)** [more info](http://www.pcworld.com/www.pcworld.com/analyt...)
- Pinterest** [more info](http://assets.pinterest.com/js/pinit.js)
- Reddit** [more info](http://www.reddit.com/static/button/button3.js)
- Twitter Button** [more info](http://platform.twitter.com/widgets/follow_button.1...)
- Typekit by Adobe** [more info](http://p.typekit.net/p.gif?a=620309&f=6037.6038.604...)

[Edit Blocking Options](#)

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Other Bookmarks




Knowledge Page

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About DoubleClick:

DoubleClick operates: DoubleClick, DoubleClick DART, DoubleClick Floodlight, DoubleClick Spotlight







In Their Own Words

"Google's DoubleClick products provide ad management and ad serving solutions to companies that buy, create or sell online advertising."

Website: <http://www.google.com/doubleclick/>


Industry Affiliations:



Learn More

 Releases, reviews, and research at Ghostery's Purple Box blog

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Need help? Visit our [support forums](#).

DoubleClick was found on over **100000** sites. Here's a sample:

1. www.facebook.com

2. www.youtube.com

3. www.imdb.com

4. www.heise.de

5. www.amazon.com

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Other Bookmarks

Industry Affiliations:

iab

europa

NAI

Network Advertising Initiative

DMA

Advertising Alliance

iab

1. www.facebook.com

2. www.youtube.com

3. www.imdb.com

4. www.heise.de

5. www.amazon.com

Privacy Information

Privacy Policy:

<http://www.google.com/intl/en/policies/privacy/>

Data Collected:

Anonymous (Ad Views, Analytics, Browser Information, Cookie Data , Date/Time, Demographic Data, Hardware/Software Type, Interaction Data , Page Views , Serving Domains)

Pseudonymous (IP Address (EU PII), Search History, Location Based Data, Device ID (EU PII))

PII (Phone Number)

Data Sharing:

Anonymous data is shared with 3rd parties.

Data Retention:

Undisclosed

Privacy Contact

DoubleClick

111 Eighth Avenue , 10th Floor , New York, NY, 10011

Email: privacydept@doubleclick.com

Privacy contact URL:

http://www.google.com/support/websearch/bin/request.py?form_type=user&stage=fm&user_type=user&contact_type=privacy

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BROWSER	DETECTION	CONTROL	CURRENT VERSION	DOWNLOAD
 Firefox	Full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	2.9.5	Download Ghostery for Firefox now!
 Safari	Full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	1.4.2	Download Ghostery for Safari now!
 Google Chrome	Full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	4.1.2	✓ Installed
 Opera	Almost full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	0.10.0 0.12.0 (Opera Next)	Download Ghostery for Opera now!
 Internet Explorer	Full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	3.1.0	Download Ghostery for Internet Explorer now!

MOBILE BROWSER	DETECTION	CONTROL	CURRENT VERSION	DOWNLOAD
 Ghostery for Mobile - iOS	Full detection of tracker scripts, img tags, and iframes from over 1000 data collection services	Blocking capability for each detected element	1.2	Get Ghostery from iTunes Store now!



PCWorld



Google's Project Loon
wants to spread Net
access with high-flying
balloons



How to use Facebook
hashtags safely and



Back

Trackers

BlueKai

ChartBeat

Commission Junction

DoubleClick

eXelate

Facebook Connect

Facebook Social Plugins

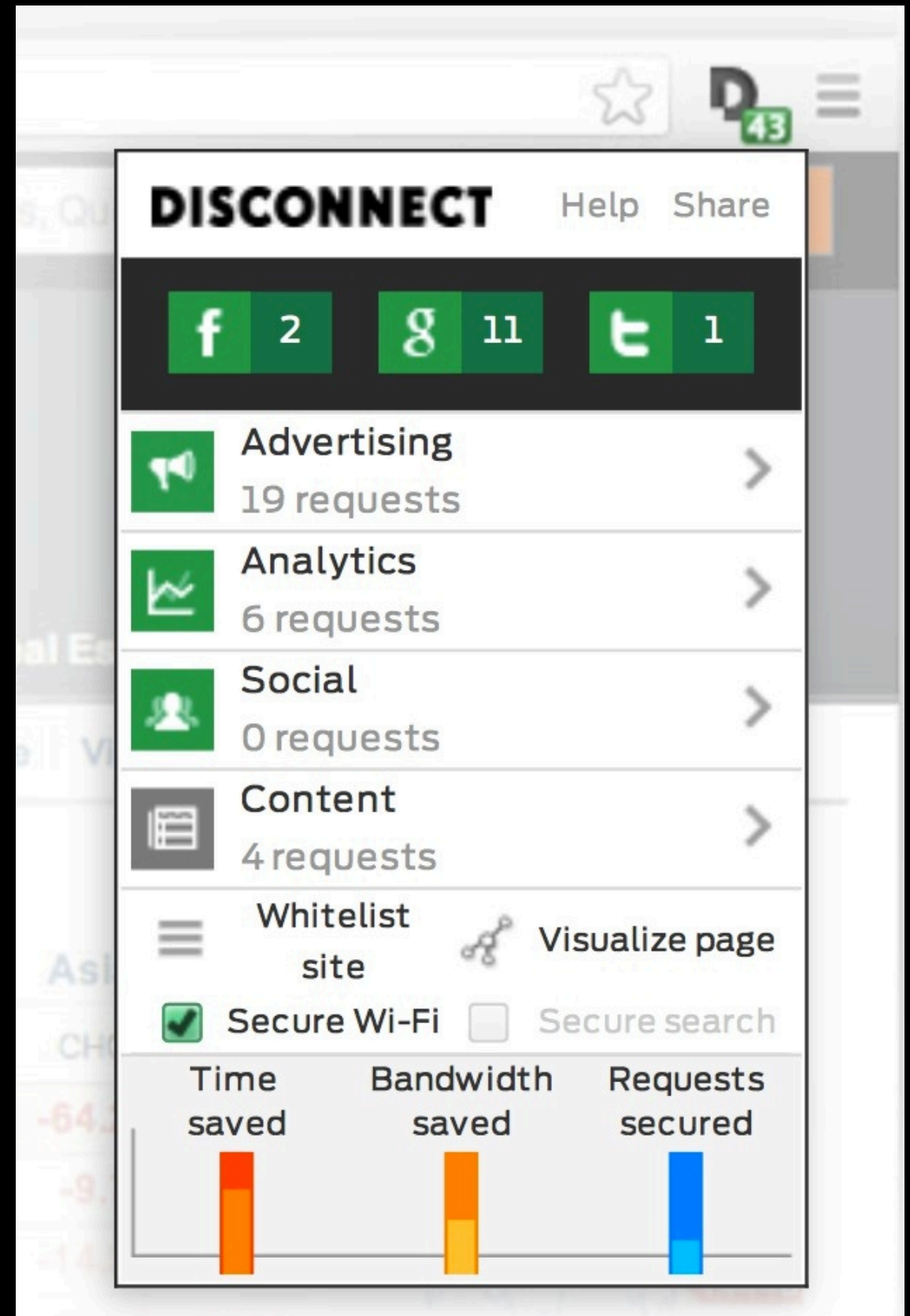
Gigya Socialize

Google Analytics

More Info

Block

Disconnect
disconnect.me
Open source
UI not as good



DIY: Do It Yourself







1 0 1 0 0 0 1 0 1 0 1
0 1 0 0 0 1 0 1 0 1 1
1 1 0 1 0 0 1 0 1 0 0
0 0 1 0 1 0 1 1 0 1 0
1 0 0 1 1 0 1 0 1 0 0
0 1 1 0 0 1 0 1 0 1 1
1 1 0 1 1 1 0 1 0 0 1

NAS

Network Attached Storage

A small computer
with hard drives in it
that you control
& can access over the Net



Transporter by Connected Data

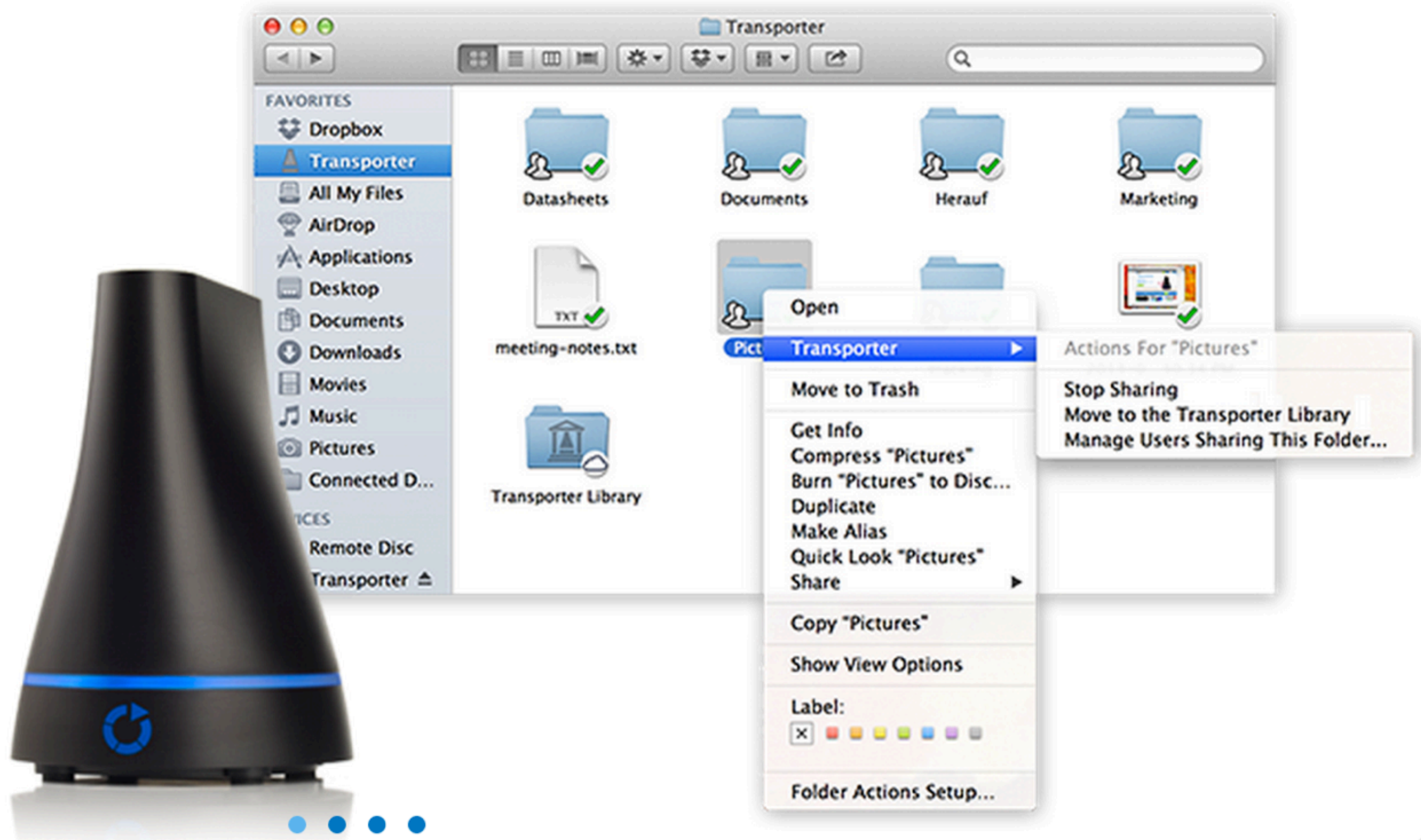
“Transporter is
a private cloud storage device
for syncing, sharing, accessing,
& protecting your digital life.

No cloud, no fees,
no privacy concerns.

Your files are only stored on your
Transporters & computers
& mobile devices that you authorize.”









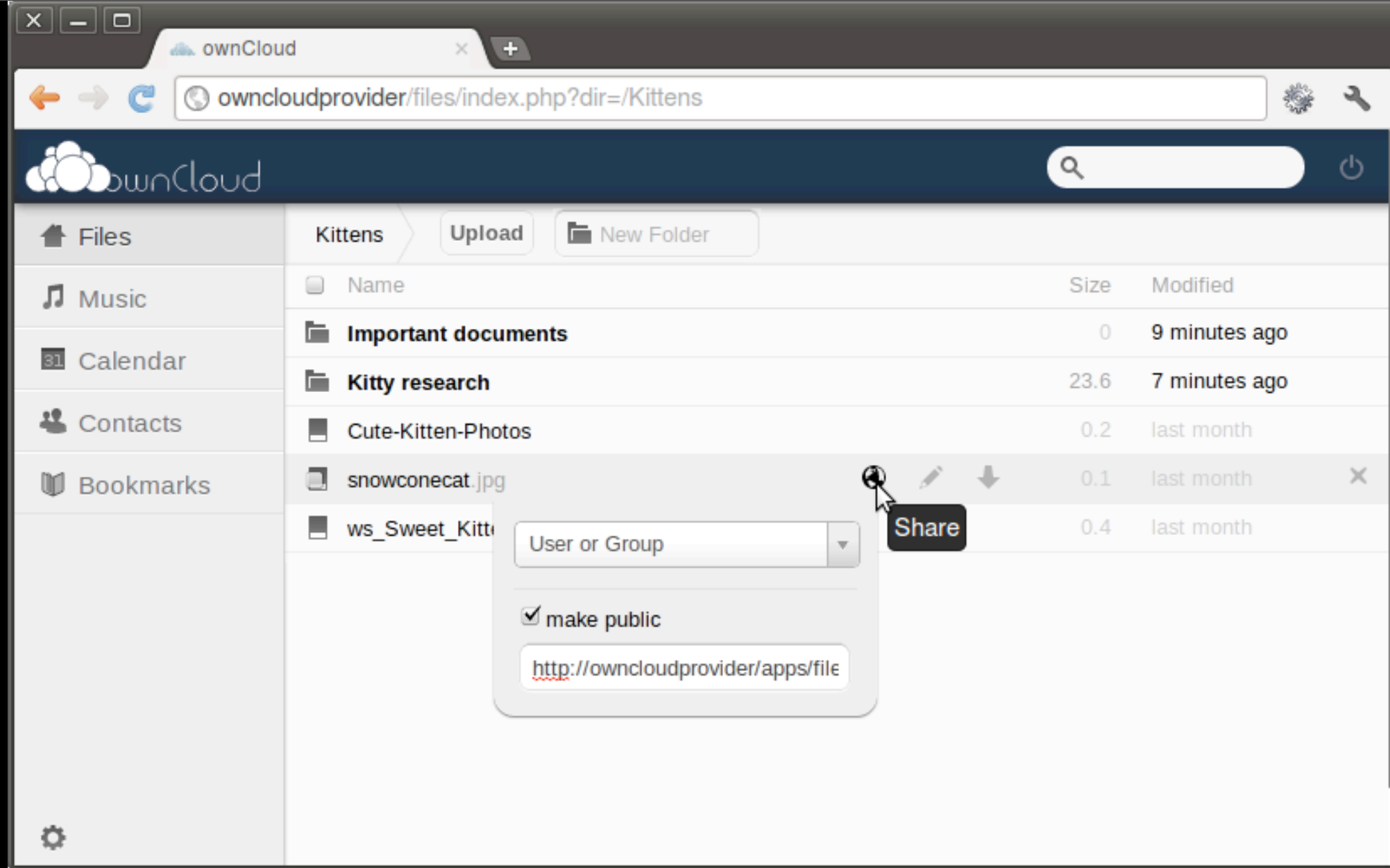
\$190 without hard drive

\$300 with 1 TB hard drive

\$397 with 2 TB hard drive

www.filetransporter.com





File storage, versioning,
syncing, & sharing

Contacts, calendars, photo galleries

Apps

Free & open source

owncloud.org

[lifehacker.com/5993596/
how-to-set-up-your-own-
private-cloud-storage-service-
in-five-minutes-with-owncloud](http://lifehacker.com/5993596/how-to-set-up-your-own-private-cloud-storage-service-in-five-minutes-with-owncloud)

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Desktop Backup
Time Backup
USBCopy & SDCopy

■ Easy Management

Account & Privilege
Home Storage

■ File Sharing

Cloud Station
File Station
FTP
Windows, Mac, Linux

■ Home Applications

Audio Station
Download Station
iTunes Server
Media Server
Photo Station
Print Server
Video Station

■ Internet Connection

Network Service
Quick Setup

■ Mobile Apps

DS audio
DS cloud
DS download
DS file
DS photo+
DS video
Printing Solution

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🔗 <https://granneman.dyndns.org:5001/webman/index.cgi>

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📁 News

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📁 Other Bookmarks

🖱️

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🔍

File Station

🖨️

Control Panel

📦

Package Center

❓

DSM Help

🎩

Quick Start

Synology DSM 4.0

🛡️

System Health

✅

Good

Your DiskStation is working well.

Uptime: 81 day(s) 15:23:51

📊

Resource Monitor

CPU

RAM

2000

1500

1000

500

0

📈

📉

651 KB/s

28 KB/s

📄

Recent Logs

1/5

🔍

User [admin] logged in from [68.18...

🔍

System successfully registered [71...

⚠️

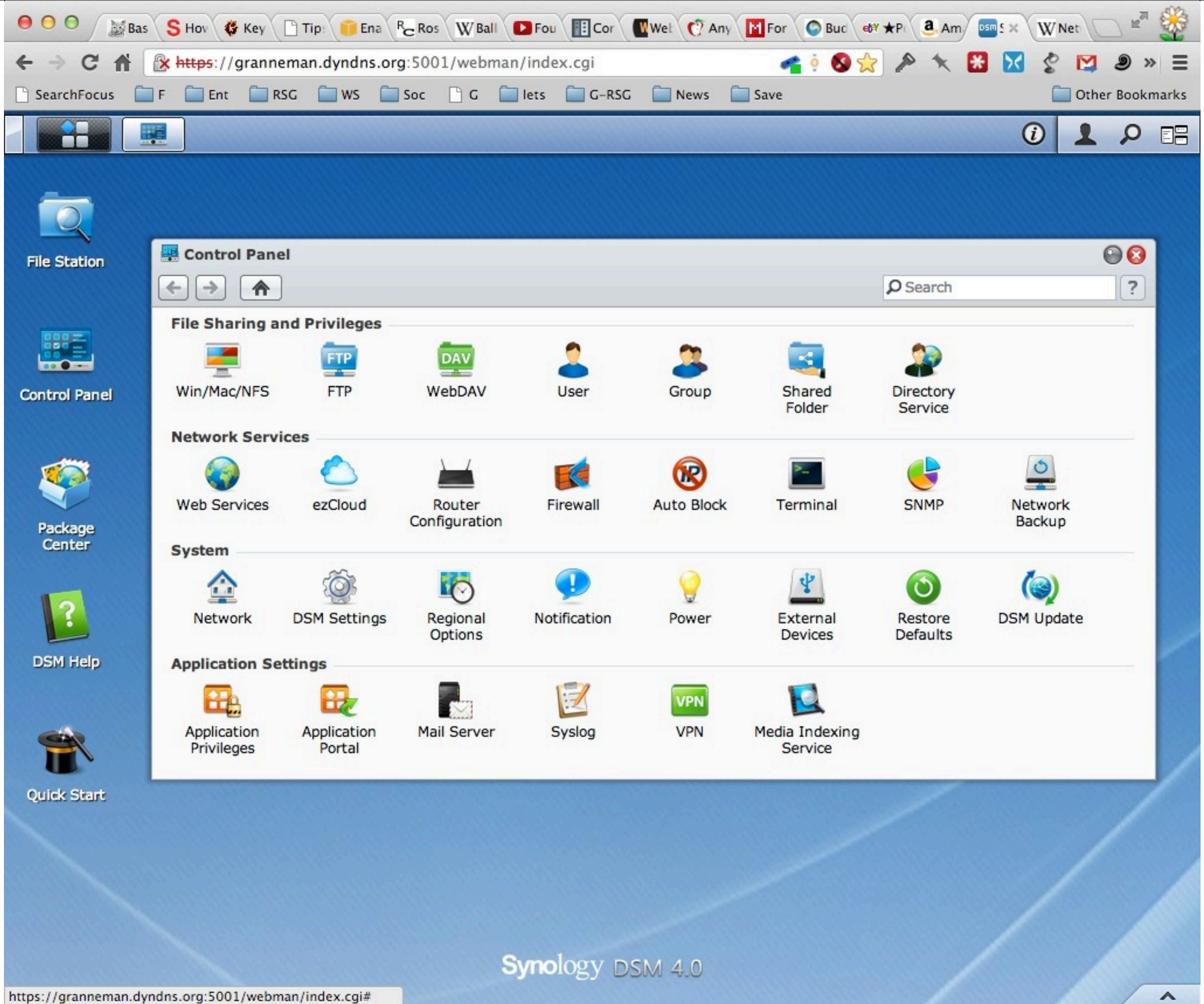
Host [91.205.189.15] has been bloc...

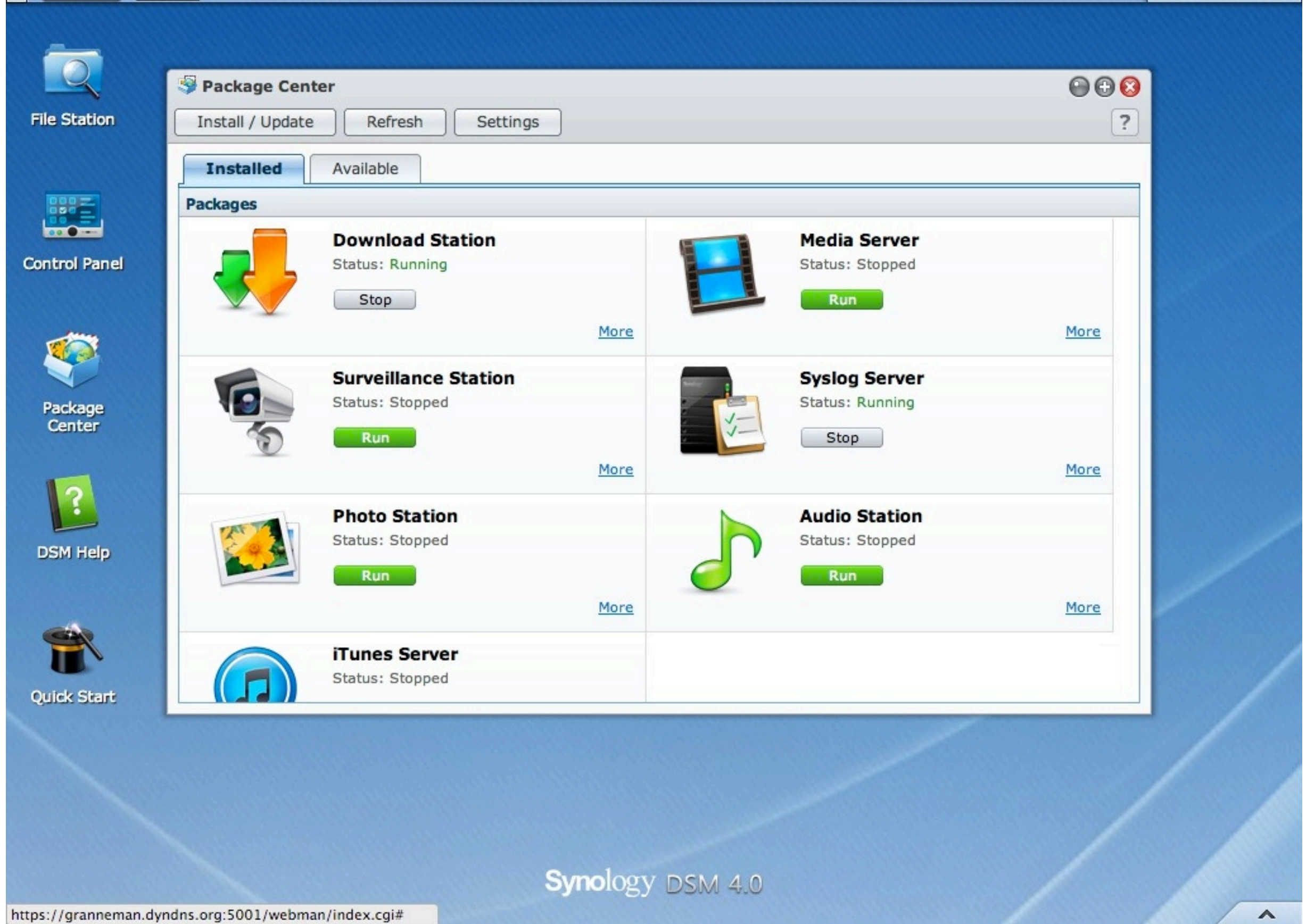
🔍

System successfully registered [71...

⚠️

Host [72.8.134.103] has been block...







Government Agents

Sunday, October 6, 13

Any unencrypted message
sent over the Internet
is being delivered
to every intelligence service
in the world.

Edward Snowden,
August 13, 2013



The Goal:

Protect your privacy
from the government

Also helps
against snoops & corporations

A CRYPTO NERD'S
IMAGINATION:

HIS LAPTOP'S ENCRYPTED.
LET'S BUILD A MILLION-DOLLAR
CLUSTER TO CRACK IT.

BLAST! OUR
EVIL PLAN
IS FOILED!

NO GOOD! IT'S
4096-BIT RSA!



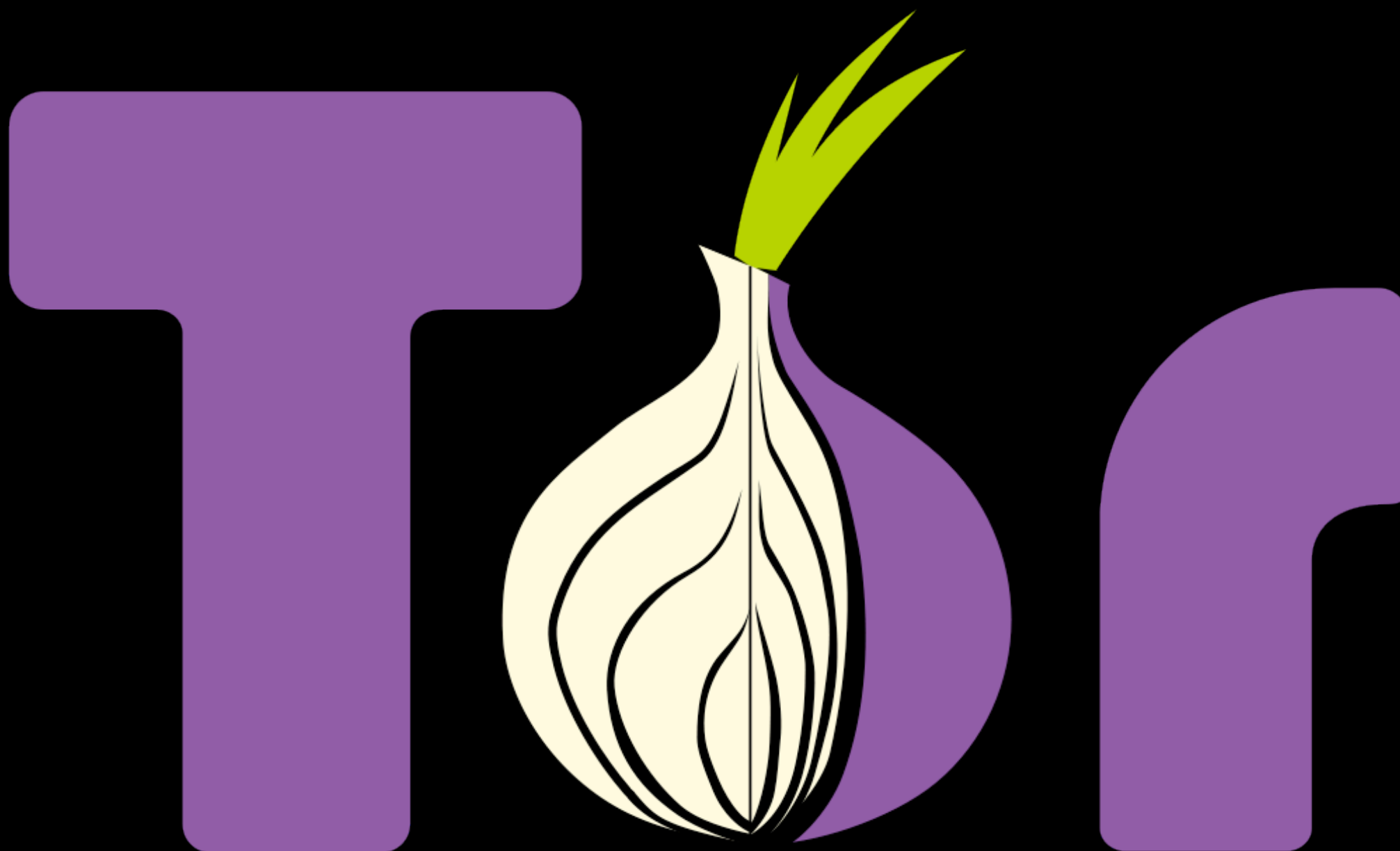
WHAT WOULD
ACTUALLY HAPPEN:

HIS LAPTOP'S ENCRYPTED.
DRUG HIM AND HIT HIM WITH
THIS \$5 WRENCH UNTIL
HE TELLS US THE PASSWORD.

GOT IT.



AKA, rubber-hose cryptanalysis

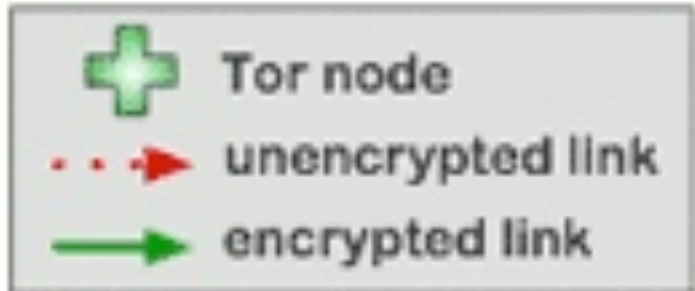


TOR

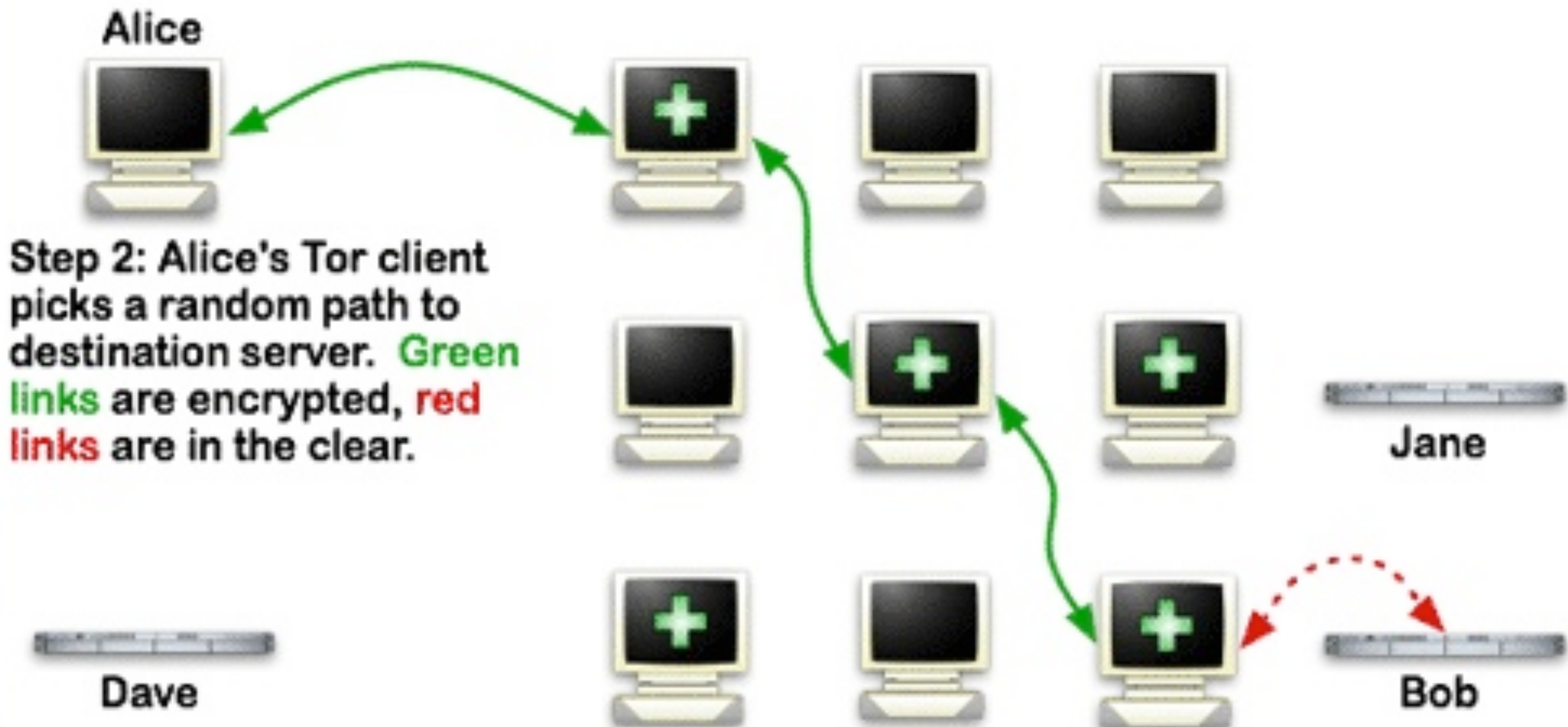
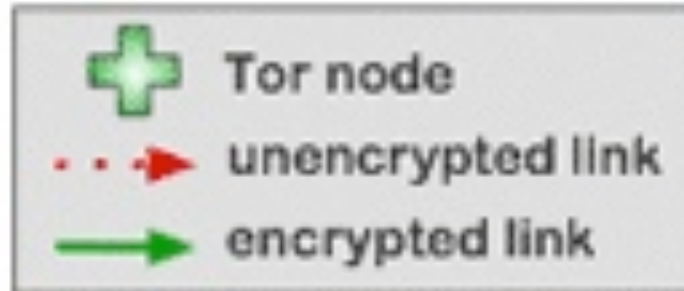
Onion routing

Hides
your Internet location & usage

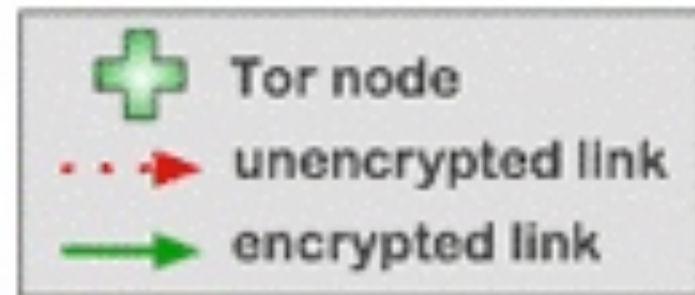
How Tor Works: 1



How Tor Works: 2



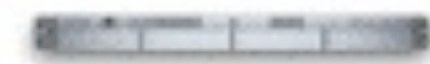
How Tor Works: 3



Alice



Jane



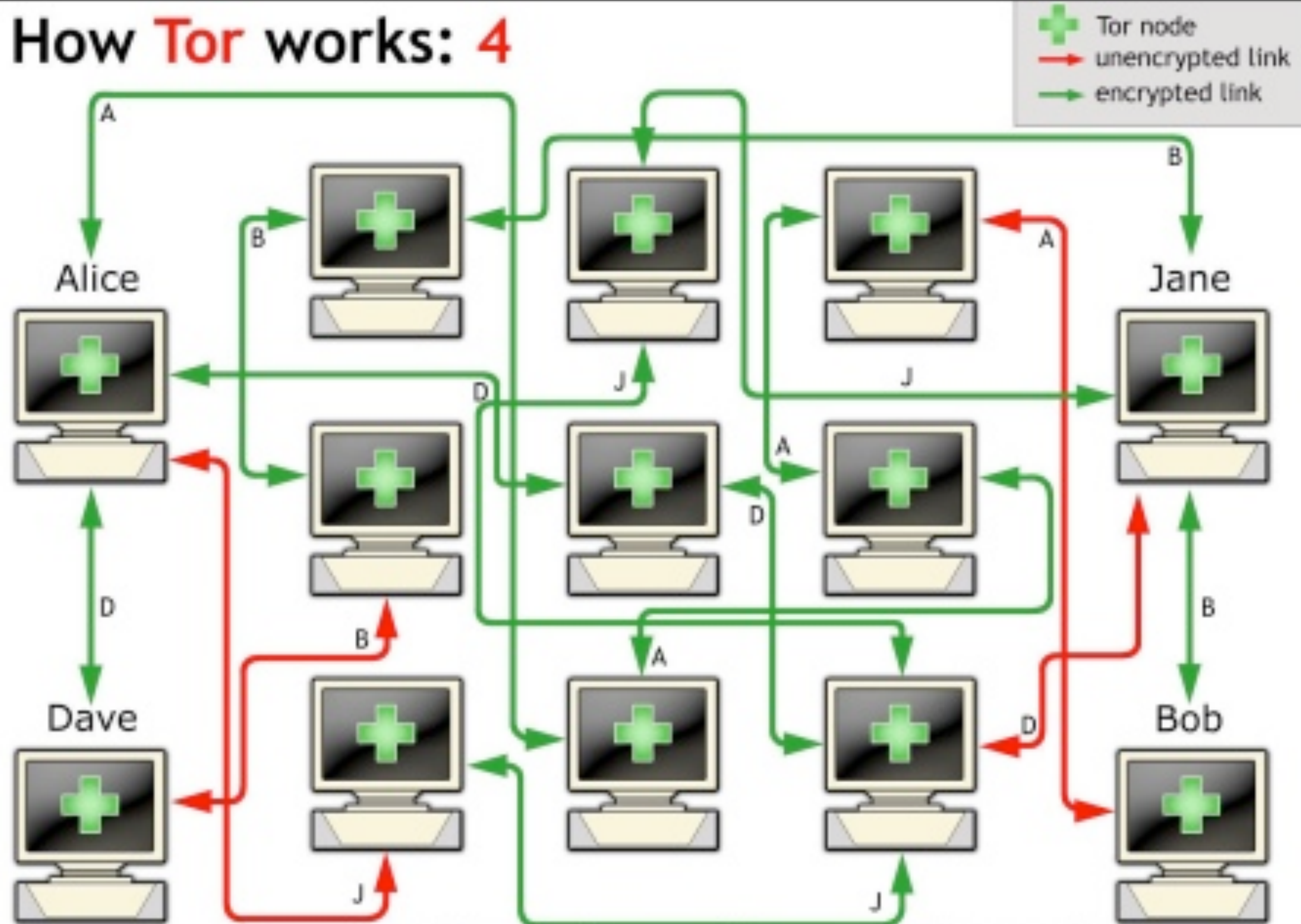
Bob

Step 3: If at a later time, the user visits another site, Alice's tor client selects a second random path. Again, **green links** are encrypted, **red links** are in the clear.



Dave

How Tor works: 4



Nine Tor nodes and 4 users / Tor nodes

A: Alice connects to Bob - **B:** Bob connects to Dave
J: Jane connects to Alice - **D:** Dave connects to Jane

Sloooooow...



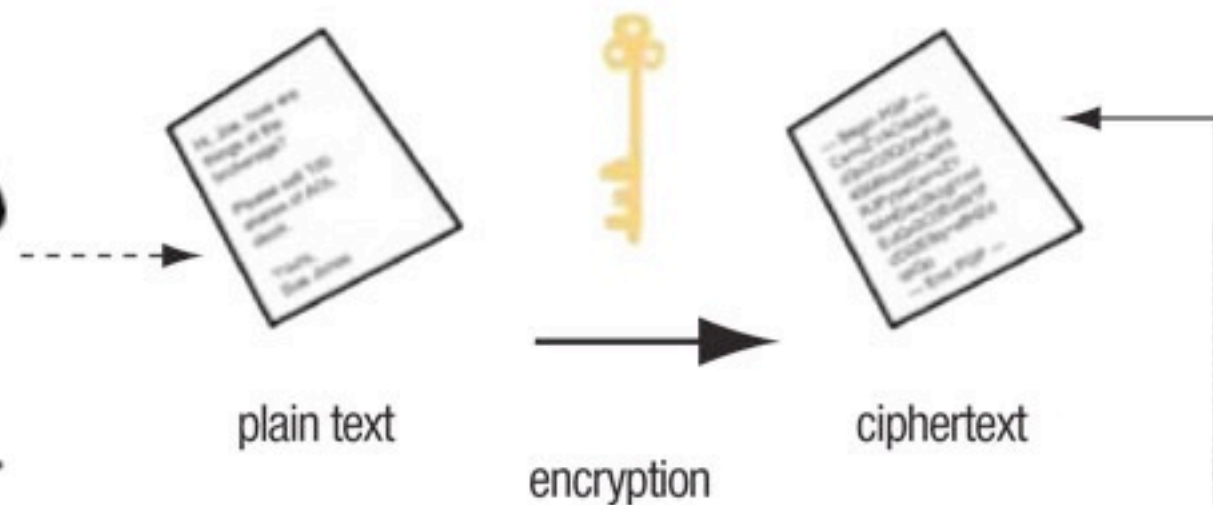


Public Key Encryption

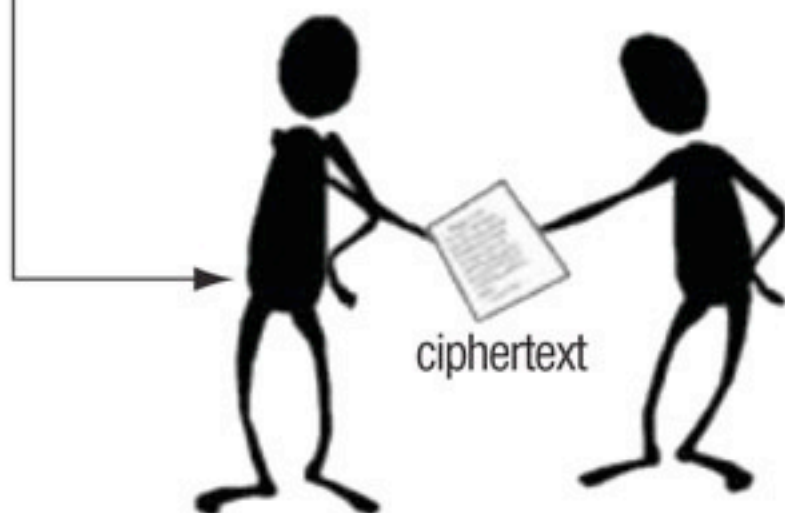
Step 1: Give your public key to sender



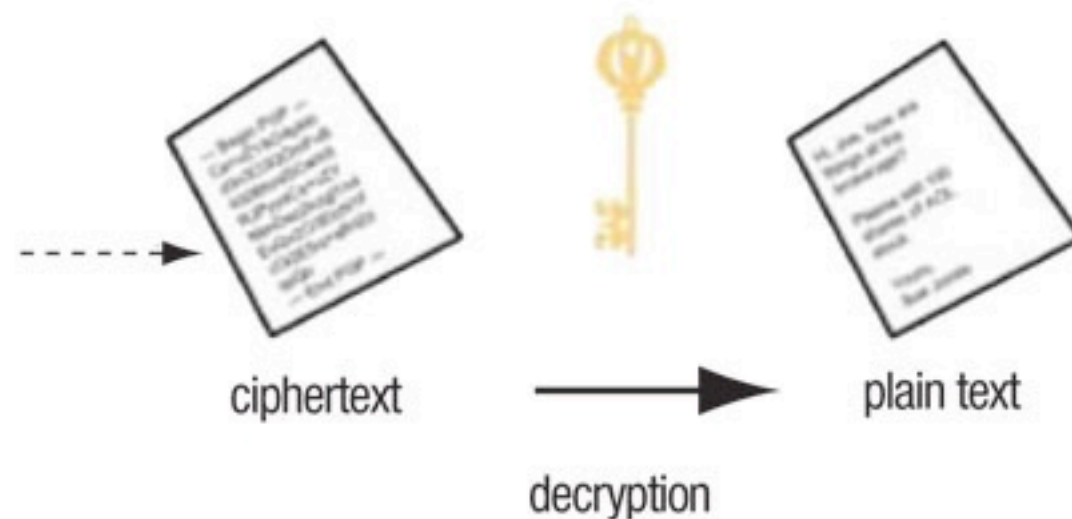
Step 2: Sender uses your public key to encrypt the plain text



Step 3: Sender gives the ciphertext to you.



Step 4: Use your private key (and passphrase) to decrypt the ciphertext.





Bruce Schneier:

“We’re already trying to phase out
1024-bit RSA keys
in favor of 2048-bit keys.
Perhaps we need
to jump even further ahead
and consider 3072-bit keys.”

The problems?

Everyone has to set it up

Everyone has to exchange
public keys

Everyone has to use it

You can't search
your email or hard drive

Webmail doesn't support it

S/MIME

Secure/Multipurpose Internet Mail Extensions

2 services

- ✓ Digital signatures
- ✓ Message encryption

Advantages

- ✓ Much easier to use than GPG/PGP
 - ✓ Email searchable
 - ✓ Works with both desktop & mobile clients (& webmail)

Get your free cert

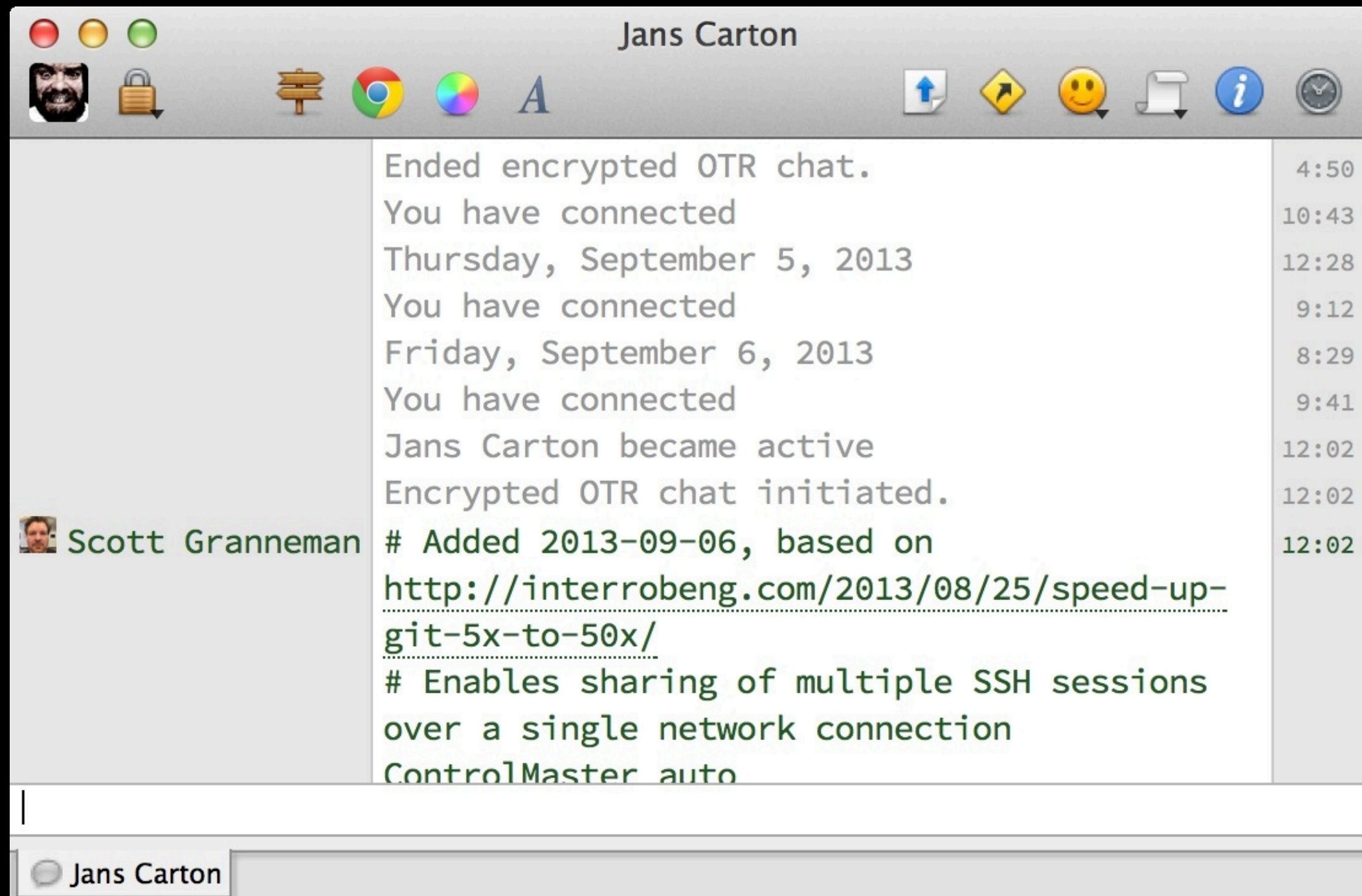
[http://www.instantssl.com/
ssl-certificate-products/
free-email-certificate.html](http://www.instantssl.com/ssl-certificate-products/free-email-certificate.html)

OTR

Off-the-Record Messaging

Encrypted IM

<http://www.cypheerpunks.ca/otr/s>



IM clients with built-in OTR

- ✓ Adium
- ✓ IM+
- ✓ Kopete
- ✓ Gibberbot
- ✓ Jitsi

IM clients with OTR plugins

- ✓ Pidgin
- ✓ Miranda
- ✓ Trillian
- ✓ xchat
- ✓ Psi

“Air Gap”

Bruce Schneier:

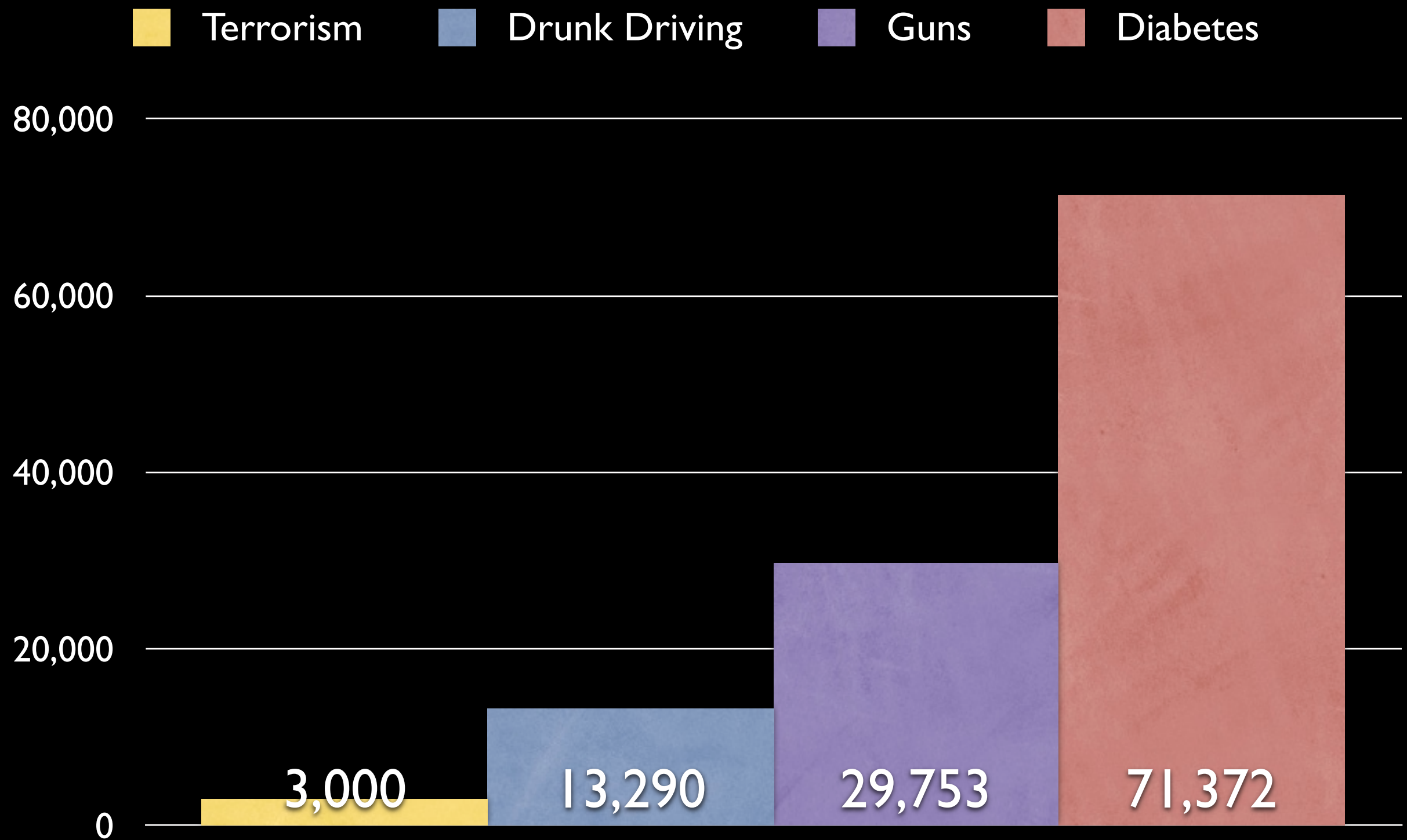
“Since I started working
with the Snowden documents,
I bought a new computer
that has never
been connected to the internet.

“If I want to transfer a file,
I encrypt the file
on the secure computer
and walk it over
to my internet computer,
using a USB stick.
To decrypt something,
I reverse the process.
This might not be bulletproof,
but it's pretty good.”



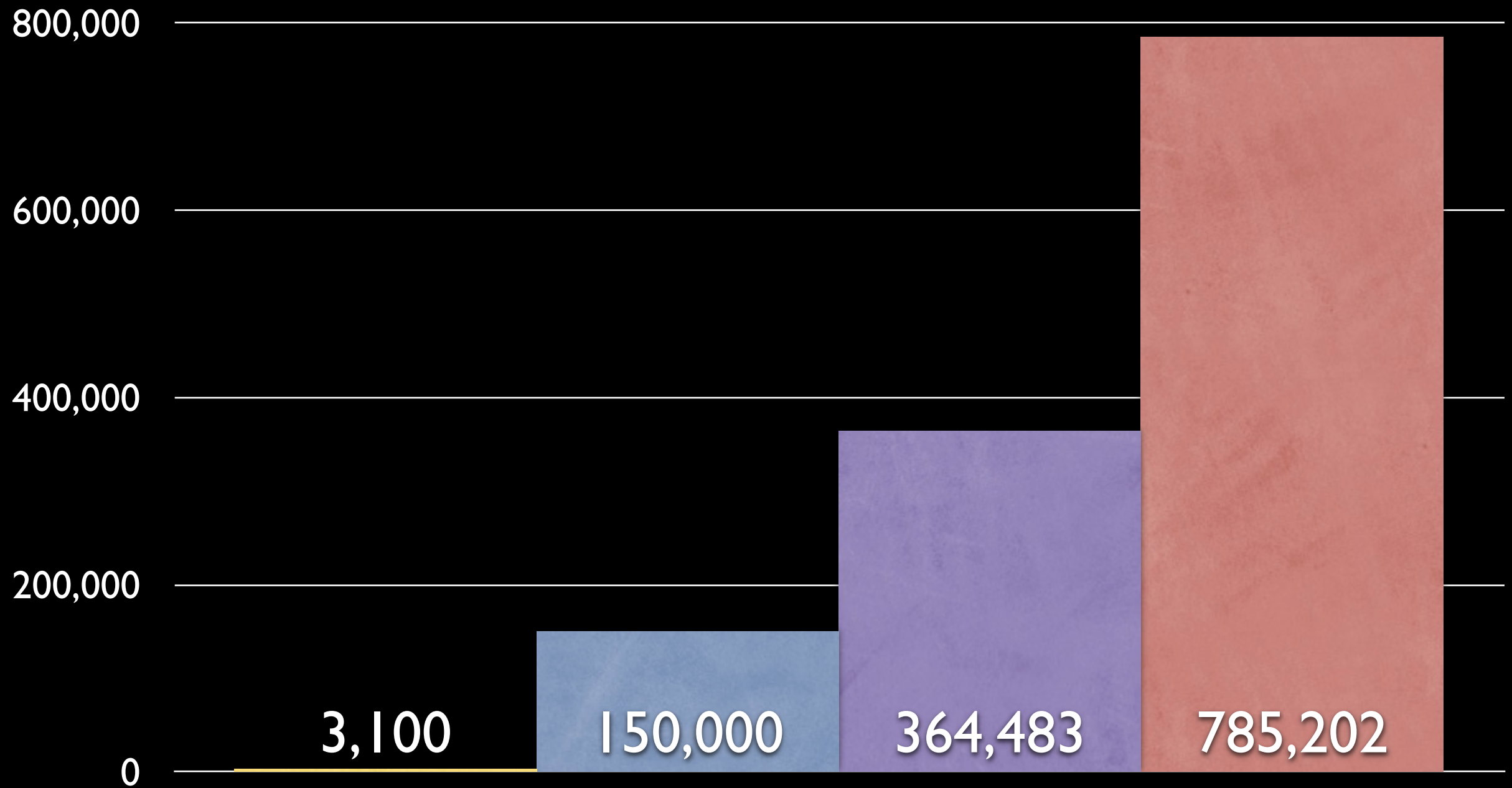
Objections

U.S. Deaths 2001



U.S. Deaths 1999–2010

Terrorism Drunk Driving Guns Diabetes



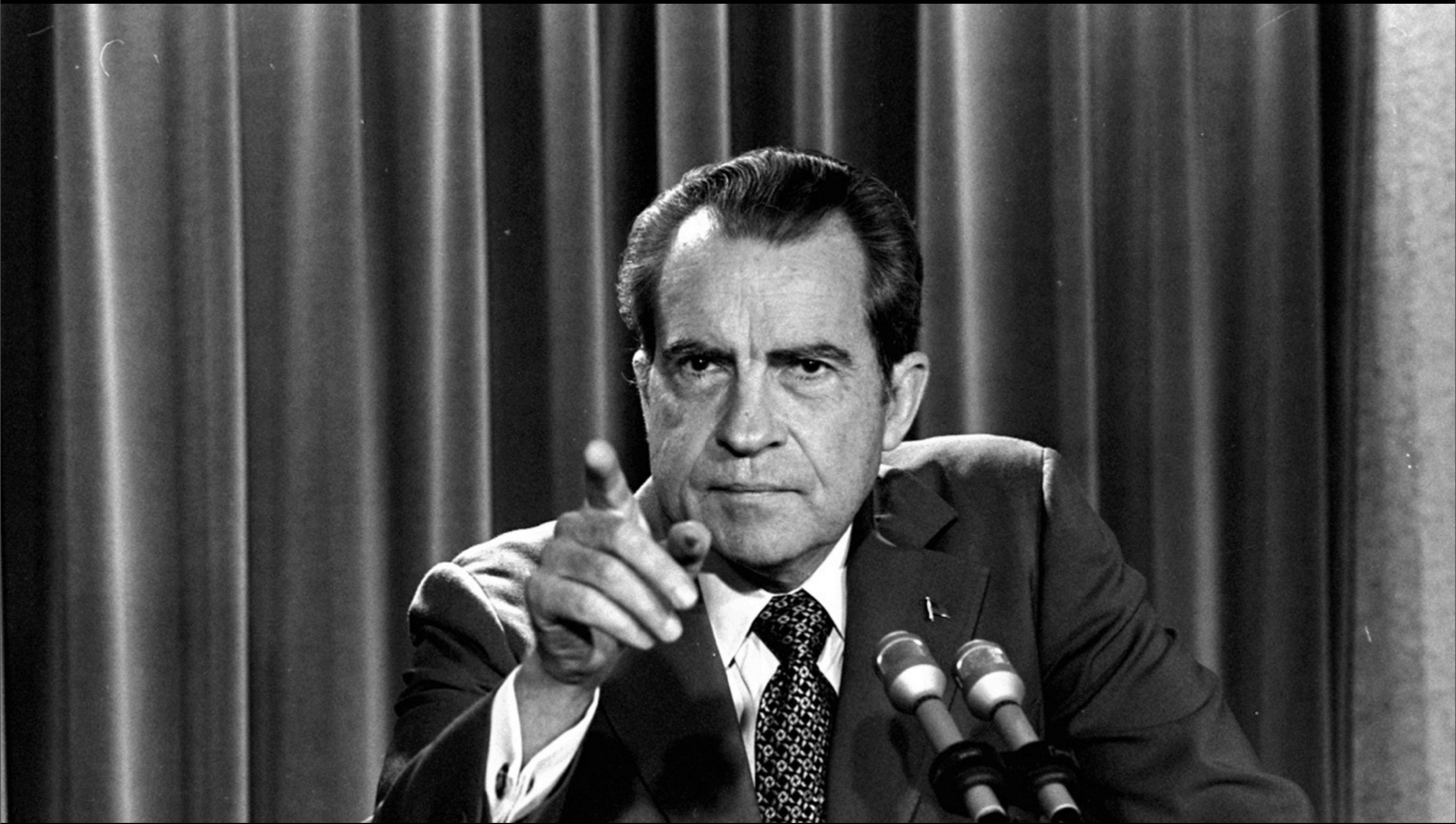


“If you’re not doing anything wrong,
then you shouldn’t mind
if the government watches you.”

It's not how you view yourself,
but how the government views *you*

It decides if you are a threat;
you don't

Power corrupts



Absolute power corrupts absolutely



Quis custodiet custodes ipsos?
(Who will watch the watchers?)



Cardinal Richelieu:

*“If one would give me six lines
written by the hand
of the most honest man,
I would find something in them
to have him hanged.”*



Forever is a long time

“[C]itizens
who believe
they are law-
abiding may,
in the eyes of
federal prosecutors,
be committing
three felonies
each day...”

*“It’s a bombshell that was worth waiting for.”—Dorothy Rabinowitz,
Wall Street Journal editorialist and a winner of the Pulitzer Prize*



THREE FELONIES A DAY

HOW THE FEDS TARGET THE INNOCENT

HARVEY A. SILVERGLATE

With a New Preface by the Author

D U
CONTRACT SOCIAL;
O U
P R I N C I P E S
D U
DROIT POLITIQUE.

PAR J. J. ROUSSEAU,
CITOYEN DE GENEVE.

— *fœderis æquas*
Dicamus leges.

Æneid. xi.



A AMSTERDAM,
Chez MARC MICHEL REY,
MDCCLXII.

*Malo periculosam
libertatem quam
quietum servitium*

(I prefer liberty
with danger
to peace
with servitude)

Thank you!

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Email: denise@deniselieberman.com

What THEY Know, What YOU Don't: Digital Intrusion & Digital Privacy

St. Louis UNIX Users Group

Scott Granneman

Denise Lieberman

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POLICE DEPARTMENT
CITY OF PHOENIX, ARIZONA
SEARCH WARRANT
COUNTY OF MARICOPA, STATE OF ARIZONA

CASE NO.

2006-004692

TO ANY PEACE OFFICER IN THE STATE OF ARIZONA

Proof by affidavit having been made this day to me by Officer

I am satisfied that there is probable cause to believe that

[x] on person(s) of Suspect #1 Webster, Alan J. [redacted], black hair, brown eyes, 6'0", 185 lbs., Suspect #2 Webster, Nita M W/F, [redacted], brown eyes, 5'05", 120 lbs. and Suspect #3 Campbell, Joseph L. B/M [redacted], brown eyes, 6'02", 300 lbs.

[x] on the premises described as 250 [redacted] Flamingo Inn, #219. This being a multi unit motel complex constructed of [redacted] red trim. Apartment #219 is located in the south east corner of the building [redacted] and is red in color with the number "219" on the door.

in the City of Phoenix, [redacted] of Arizona, there is now being possessed or concealed certain property, persons or [redacted]

Drug Paraphernalia

A usable amount of a narcotic drug;

Firearms;

Indicia of occupancy, residency, and/or ownership of the premises described above, including, but not limited to utility, telephone bills, and canceled mail;

NO WARRANT