

Security Paintings

*How do you convey
information when **you don't
really know what's happening?***

Legal Disclaimer

Some technologies discussed in this presentation may be patent pending.

Status Website	Rating	# Webpages	Webpages in %	See Webpages!
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 movies.netflix.com	Adult	11	27%	Details
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movies.netflix.com

X

Rating: Adult

Webpages

Webpages	Rating	Time
http://movies.netflix.com/WiHome	Everybody	13:09 07/10/2011
http://movies.netflix.com/WiSearch?q=blade+r&ac_p...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Pre-Teen	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/WiContentPage?pn=2&csid=...	Adult	13:07 07/10/2011



Adult

Time spent: less than 10 minutes
Webpages visited: 1

[Pornography - Wikipedia, the free](http://en.wikipedia.org)

[http://en.wikipedi](http://en.wikipedia.org)

1. [encyclopedia](http://en.wikipedia.org)

[Details en.wikipedia.org](http://en.wikipedia.org)



Drugs, Alcohol & Tobacco

Time spent: less than 10 minutes
Webpages visited: 5

[Pornography - Wikipedia, the free](http://en.wikipedia.org)

[http://en.wikipedi](http://en.wikipedia.org)

1. [encyclopedia](http://en.wikipedia.org)

[Details en.wikipedia.org](http://en.wikipedia.org)

[How do people get marijuana if its illegal?](http://answers.yahoo.com)

<http://answers.ya>

2. [- Yahoo! Answers](http://answers.yahoo.com)

[Details I know marijuana is illegal. But I want to know ho...](http://answers.yahoo.com)

[Drugs.com | Prescription Drug](http://www.drugs.com)

[http://www.drugs.](http://www.drugs.com)

3. [Information, Interactions & Side Effects](http://www.drugs.com)

[Details Prescription drug information and news for professionals and consumers. Search our drug database for comprehensive prescription and patient information on 24,000 drugs online](http://www.drugs.com)

[WeBeHigh.com Los Angeles, CA](http://www.webhigh.com)

[http://www.webhigh](http://www.webhigh.com)

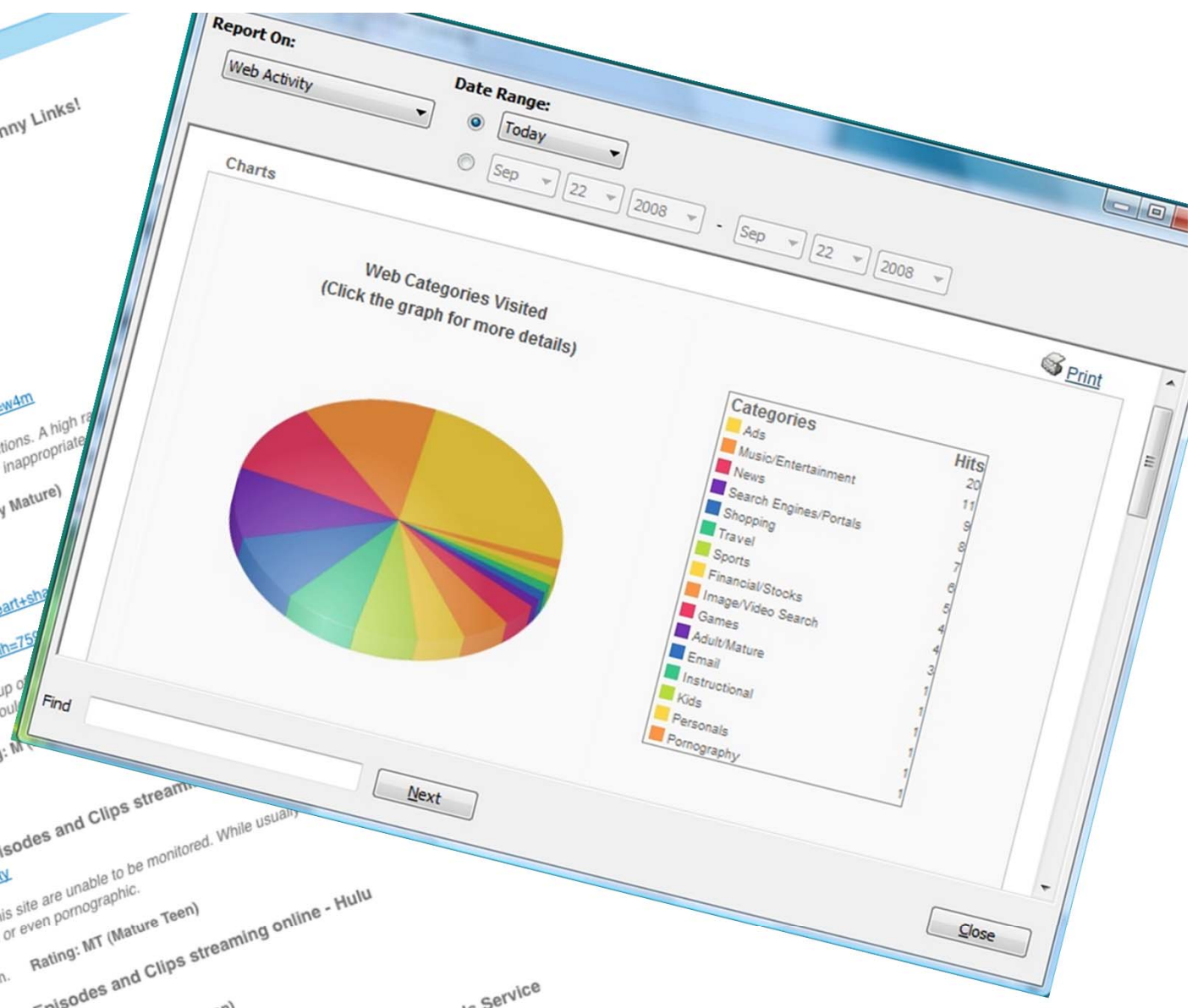
[Marijuana prices and where to buy weed](http://www.webhigh.com)



***“Online safety parents and kids
can agree on”***

High Ratings per Site

- COLLEGEHUMOR.COM**
CollegeHumor - Funny Videos, Funny Pictures, Funny Links!
www.collegehumor.com/
Feb 25, 2:30:26 p.m. Rating: M (Mature)
- collegehumor.com/
Feb 25, 2:30:26 p.m. Rating: M (Mature)
- CRAIGSLIST.ORG**
craigslist | personals
int.craigslist.org/cgi-bin/personals.cgi?category=w4m
Auction or shopping site has highly mature sections. A high rating particular site had mature items that are likely inappropriate.
Feb 23, 1:29:57 p.m. Rating: HM (Highly Mature)
- GOOGLE.COM**
www.google.com/images?q=hands+heart+sh&sa=N&hl=en&tab=wi&biw=1604&bih=759
Image or video search may bring up caution and children under 18 should
Feb 25, 3:05:43 p.m. Rating: M
- HULU.COM**
Community - Full Episodes and Clips streaming
www.hulu.com/community
Videos accessed on this site are unable to be monitored. While usually this site can be erotic or even pornographic.
Feb 25, 2:37:36 p.m. Rating: MT (Mature Teen)
- MATCH.COM**
Match.com - Find Singles with Match.com's Online Dating Personals Service
www.match.com/search/searchSubmit.aspx?lid=107&t2s=1&cp=cppp/flo
13:08 07/10/2011



What data do I have?
How can I present it?



**What data do I have?
How can I present it?**

**What *conclusions* interest me?
How can I *perceive* them?**



Status Website	Rating	# Webpages	Webpages in %	See Webpages!
----------------	--------	------------	---------------	---------------

 movies.netflix.com	Adult	11	27%	Details
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movies.netflix.com

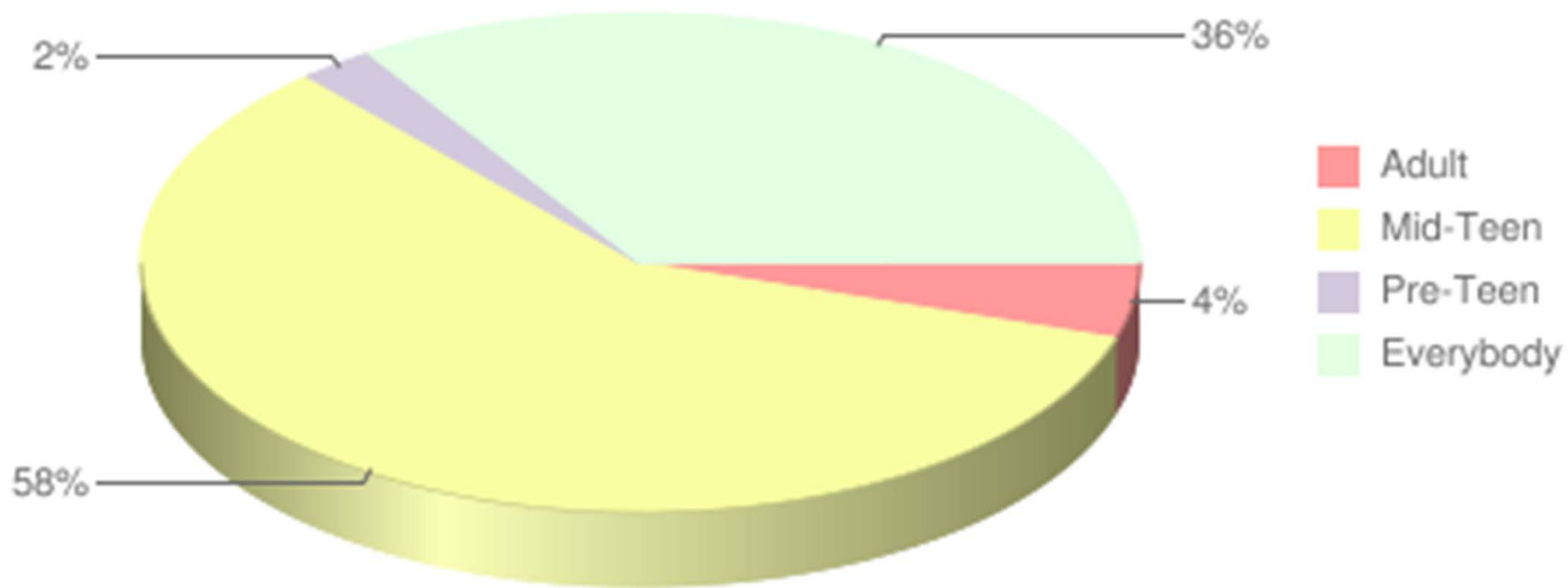
X

Rating: Adult

Webpages

Webpages	Rating	Time
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http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Pre-Teen	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/JSON/AutoCompleteSearch?...	Everybody	13:08 07/10/2011
http://movies.netflix.com/WiContentPage?pn=2&csid=...	Adult	13:07 07/10/2011

Rating summary - displays surfing activities sorted



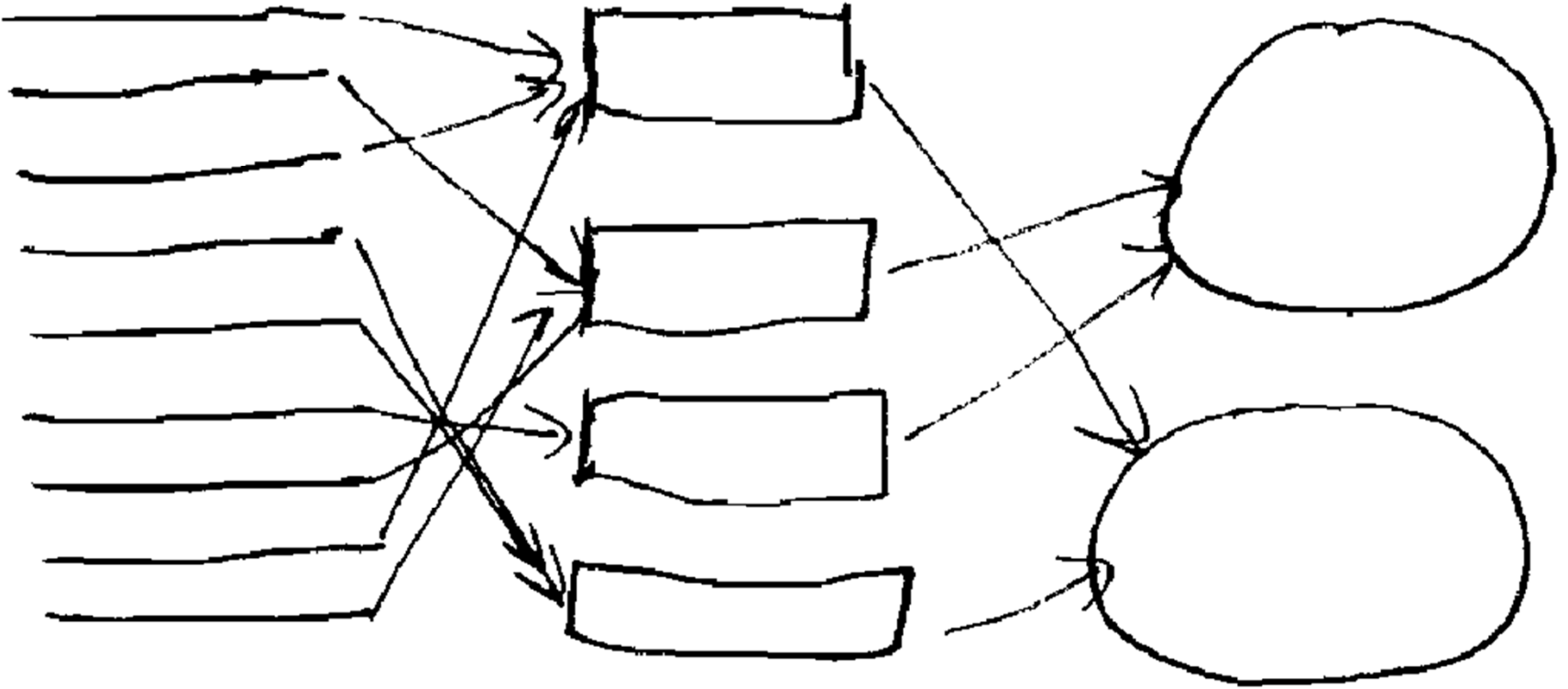
**1. Only High level data is *interesting*.
But only Low level data is *credible*.**

2. Uncertain Ordering

3. Want Repeated Patterns

4. Want Context





Alcohol

3 hours (23 sites) this week

First Visit: 3 months ago

Time Spent: 2 hours per week

1. [Budweiser - King of Beers](#) www.budweiser.com
Details *Budwesier: the Great American Lager... Budweiser **beer**... America's best **beer**.*
 2. [Coors Light](#) www.coorslight.com
Details *Coors Light: You must be 21 or over to visit this site. Please verify...*
 3. [Dr Vino's wine blog](#) www.drvinoblog.com
NEW SITE
Details *A spirited **wine** blog with independent picks... **wine** maps...*
 4. [Consumer Reports - Wine Information](#) www.consumerreports.org/cro/food/...
Details *Get information on **wines** from the unbiased, independent experts.*
 5. [Miller Lite - Wikipedia, the free...](#) en.wikipedia.org/wiki/Miller_Lite
Details *Miller Lite is a 4.2%... Sibling **beers** include Miller Genuide Draft and Miller Regular...*
- 6 - 23. [Show 18 more Alcohol sites...](#)

Sports

8 hours (105 sites) this week

INCREASED ACTIVITY

First Visit: 6 months ago

Time Spent: 4 hours per week

1. [NBA](#) www.nba.org
Details *National **Basketball** Association. Your source...*
 2. [Sports Illustrated](#) sportsillustrated.com
Details ***Sports** Illustrated: The best source for info on all your favorite **sports**.*
 3. [Yankees](#) facebook.com/pages?yankees
Details *Welcome to the New York Yankees Facebook page*
- 4 - 105. [Show 102 more Sports sites...](#)





Activity

Type	Date	Time	Event	Source	Category	User	Computer	Descri
Audit Success	13.05.2008	0:33:40	552	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	16:33:47	552	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	16:29:46	552	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	16:29:35	552	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	16:29:26	552	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	12:05:08	576	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Specia
Audit Success	12.05.2008	12:05:08	528	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Succe
Audit Success	12.05.2008	12:05:08	552	Security	Logon/Logoff	\SYSTEM	TORNADO	Logon
Audit Success	12.05.2008	12:05:08	680	Security	Account Logon	TORNADO\Michael	TORNADO	Logon
Audit Success	12.05.2008	12:04:59	540	Security	Logon/Logoff	NT AUTHORITY\ANONYM	TORNADO	Succe
Audit Success	12.05.2008	12:04:55	576	Security	Logon/Logoff	NT AUTHORITY\LOCAL S	TORNADO	Specia
Audit Success	12.05.2008	12:04:55	528	Security	Logon/Logoff	NT AUTHORITY\LOCAL S	TORNADO	Succe
Audit Success	12.05.2008	12:04:55	576	Security	Logon/Logoff	NT AUTHORITY\NETWOF	TORNADO	Specia
Audit Success	12.05.2008	12:04:55	528	Security	Logon/Logoff	NT AUTHORITY\NETWOF	TORNADO	Succe
Audit Success	12.05.2008	12:04:55	528	Security	Logon/Logoff	\SYSTEM	TORNADO	Succe
Audit Success	12.05.2008	12:03:36	513	SECURITY	System Event	N/A	TORNADO	Windc
Audit Success	12.05.2008	12:03:34	538	Security	Logon/Logoff	TORNADO\Michael	TORNADO	User L
Audit Success	12.05.2008	12:03:29	551	Security	Logon/Logoff	TORNADO\Michael	TORNADO	User ii
Audit Success	12.05.2008	11:53:38	576	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Specia
Audit Success	12.05.2008	11:53:38	528	Security	Logon/Logoff	TORNADO\Michael	TORNADO	Succe

Description

Logon attempt using explicit credentials:
 Logged on user:
 User Name: Michael
 Domain: TORNADO
 Logon ID: (0x0,0x20E14)
 Logon GUID: -
 User whose credentials were used:
 Target User Name: Administrator
 Target Domain: TORNADO
 Target Logon GUID: -
 Target Server Name: mike-mobile.FSPRO.internal

ID	Log Time	Event Properties	Event Description
1	2/11/2009 12:44:43 PM	Event ID: 4611 Log Type: Security Event Type: Success Audit Category: 0 Source: Microsoft-Windows-Security-Auditing Domain: PRISMUSA Computer: KHAKKI User: N/A	A trusted logon process has been registered with the Local Security Authority. This logon process will be trusted to submit logon requests. Subject: Security ID: S-1-5-21-538122268-1042813150-4175492523-2236 Account Name: slafferty Account Domain: PRISMUSA Logon ID: 0xfdb6c Logon Process Name: KSecDDSecurity
2	2/11/2009 12:43:02 PM	Event ID: 4634 Log Type: Security Event Type: Success Audit Category: 0 Source: Microsoft-Windows-Security-Auditing Domain: PRISMUSA Computer: KHAKKI User: N/A	An account was logged off. Subject: Security ID: S-1-5-21-538122268-1042813150-4175492523-2236 Account Name: slafferty Account Domain: PRISMUSA Logon ID: 0xc16dba Logon Type: 2 This event is generated when a logon session is destroyed. It may be positively correlated with a logon event using the Logon ID value. Logon IDs are only unique between reboots on the same computer.Security
3	2/11/2009 12:43:02 PM	Event ID: 4634 Log Type: Security Event Type: Success Audit Category: 0 Source: Microsoft-Windows-Security-Auditing Domain: PRISMUSA Computer: KHAKKI User: N/A	An account was logged off. Subject: Security ID: S-1-5-21-538122268-1042813150-4175492523-2236 Account Name: slafferty Account Domain: PRISMUSA Logon ID: 0xc16d91 Logon Type: 2 This event is generated when a logon session is destroyed. It may be positively correlated with a logon event using the Logon ID value. Logon IDs are only unique between reboots on the same computer.Security
4	2/11/2009 12:43:01 PM	Event ID: 4778 Log Type: Security Event Type: Success Audit Category: 0	A session was reconnected to a Window Station. Subject: Account Name: slafferty Account Domain: PRISMUSA Logon ID: 0xfdb6c

Search Result For : Description: slafferty, Filter:Windows, Time range: 2/9/2009 11:46:36 AM - 2/11/2009 12:46:36 PM

Total Logs Found : 26

100%

Previous Next

Stop

New Search

Page No: 1

What *conclusions*
do *they* want to form?

How can they
see them?

Patterns

Time of Day

Quantity

↑ trends ↗
+
← changes →

Success
↓
Failure

Who?

which
machines

Remote
location
(IP, geo)

↑
cross border

Conclusions

Multiple *levels* of data

Patterns

Make *bouquets* of *examples*

Context

Mix in *lateral info*

Escape the ~~schema~~

Robert
Harrison

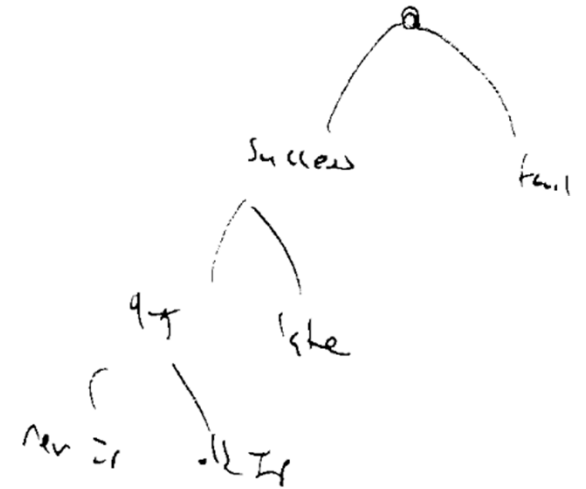
successful
75 logins
this week
(typically 81 per week)

failed
13 failed attempts
this week
(typically 6 per week)

~~From~~
From Github.com Rank

time of day
source
last

cross



* between successful
7/11/12 & 7/12/12

Robert Harrison

SENIOR VP, MARKETING
rharrison@secureco.com

75 logins this week
(typically about **90**/wk)

23 failed attempts this week
(typically about **10**/wk)

UNUSUAL ACTIVITY this week:

17 logins from new IP 34.53.104.32

(Verizon FiOS from Los Angeles, CA)

- ⊞ Wed Dec 13 3:43pm to ROLF9
- ⊞ Thu Dec 14 9:15am to ROLF9
- ⊞ Thu Dec 14 11:40pm to ROLF9
- ⊞ Fri Dec 15 9:45am to ROLF9
- ⊞ Show 13 more logins...

NORMAL ACTIVITY this week: When did this happen before?

- ⊞ **19 failed attempts** from IP 101.23.86.32 (Odessa, Ukraine)
- ⊞ **4 failed attempts** from office
- ⊞ **51 logins** from office
- ⊞ **7 logins** from IP 17.110.8.20 (Comcast from Baltimore, MD)

*Looking to hire:
Web Shadow needs
Windows API
programmers*

**Questions?
Feedback?**

**Please speak to me here at ACSAC,
or, if we miss each other:**

Jonathan Grier
jdgrier at vesaria . com
443.501.4044 x1