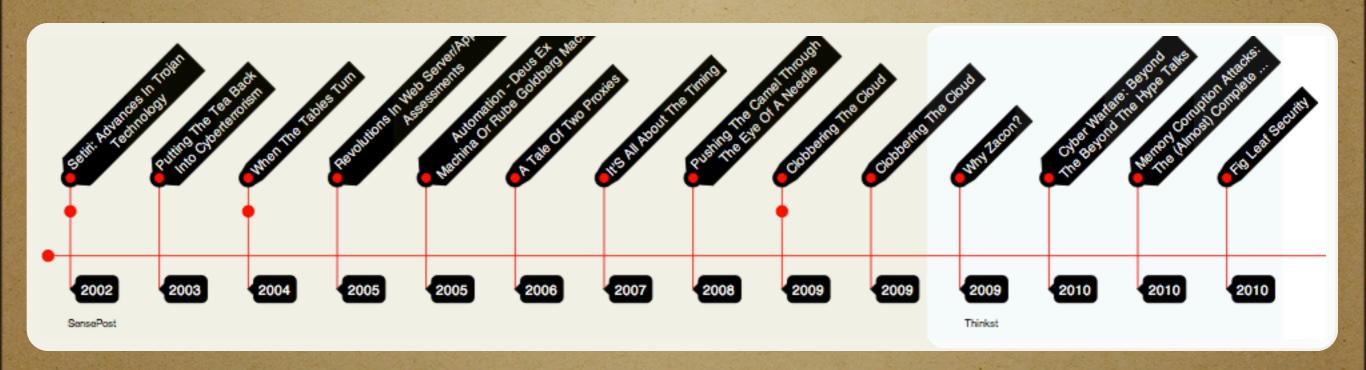
You & Your Research

2011-@haroonmeer (haroon@thinkst.com)

About: Me



@haroonmeer
haroon@thinkst.com

http://cc.thinkst.com/speaker/Meer/Haroon/timeline/

http://cc.thinkst.com/

(jameel@thinkst.com) / (@RC110)

About: Dan















C f (sc.thinkst.com/speaker/Kaminsky/Dan/





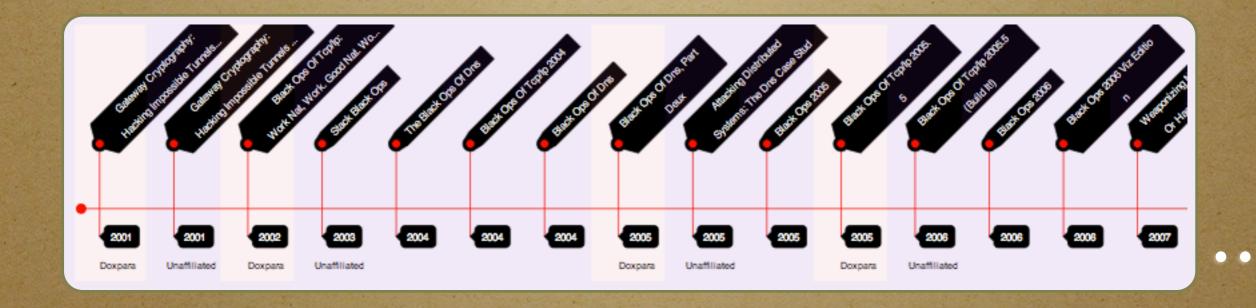
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Speaker: Dan Kaminsky [Speaker-Timeline] [Speaker-Links]

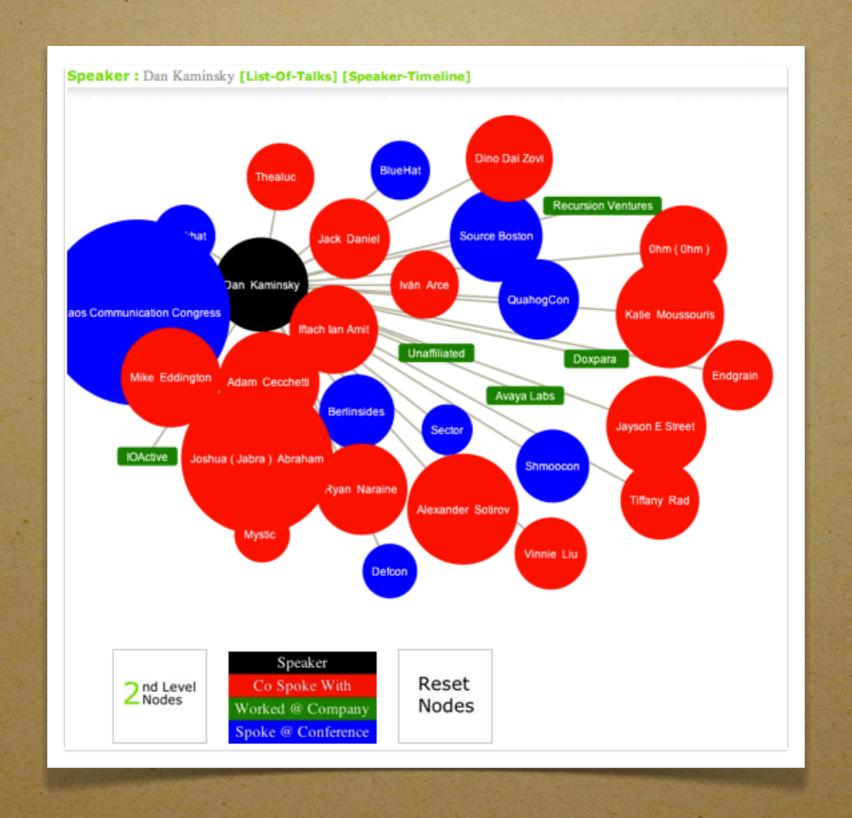
Submit Patch For Speaker

Submit ratch for Speaker	
Conference	Topic
CanSecWest-2011 - Canada- Vancouver	Showing How Security Has (And Hasn'T) Improved, After Ten Years Of Trying
Berlinsides-2010 - Berlin	Dankam : Augmented Reality For Color Blindness
Berlinsides-2010 - Berlin	Towards The Domain Key Infrastructure
Berlinsides-2010 - Berlin	Hacker Speed Debates
BlueHat-2010 - USA	The Unified Theory Of Dns Security
Defcon-18 - USA	Black Ops Of Fundamental Defense: Web Edition
Blackhat-10 - USA	Black Ops Of Fundamental Defense: Web Edition
SANS Pen Test Summit-2010 - Baltimore-Usa	Keynote: Penetration Testing By Targeting The Soft Underbelly Of Infrastructure
SANS Pen Test Summit-2010 - Baltimore-Usa	Speaker Panel: Most Effective New Technique Yove Applied In The Past 12 Months
QuahogCon-2010 - USA	Keynote - New Research Tba
Source Boston-2010 - USA	The Fine Art Of Hari Kari (.Js), And Other Approaches For The Strange Reality Of Web Defense
Chaos Communication Congress-26 - Berlin	Black Ops Of Pki
Defcon-17 - USA	Something About Network Security
Defcon-17 - USA	Hello, My Name Is /Hostname/
Blackhat-09 - USA	Something About Network Security
Source Boston-2009 - USA	The Partial Disclosure Dilemma
Source Boston-2009 - USA	Lessons Learned: Limited, Targeted, Collaborative Disclosure And Multi-Organizational Cooperation
Chaos Communication Congress-25 - Berlin	Why Were We So Vulnerable To The Dns Vulnerability?
BlueHat-2008 - Microsoft corporate headquarters	Black Ops 2008 Ñ Itis The End Of The Cache As We Know It
Defcon-16 - USA	Dns Goodness
Blackhat-08 - USA	Black Ops 2008 Its The End Of The Cache As We Know It
Chaos Communication Congress-24 - Berlin	Dns Rebinding And More Packet Tricks
Sector-2007 - Canada	Black Ops 2007: Dns Rebinding Attacks
BlueHat-2007 - Microsoft corporate headquarters	Black Ops 2007: Dns Rebinding Attacks
Blackhat-07 - USA	Black Ops 2007: Design Reviewing The Web
Shmoocon-2007 - Washington	Weaponizing Noam Chomsky, Or Hacking With Pattern Languages
Chaos Communication Congress-23 - Berlin	Black Ops 2006 Viz Edition
Defcon-14 - IIRA	Rlank One 2006

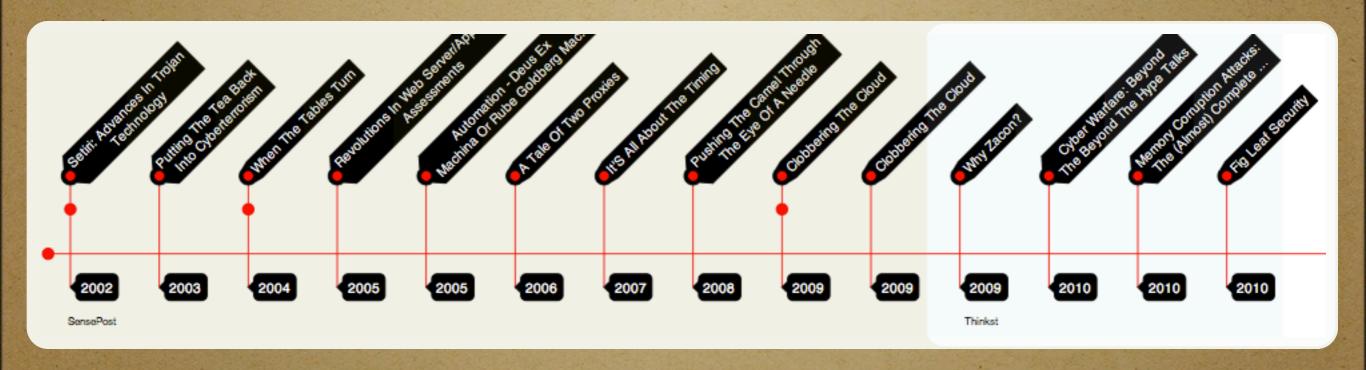
About: Dan



About: Dan



About: Me



@haroonmeer
http://blog.thinkst.com

About: You!

& Your Research

Setec Astronomy Setec Confer Moan (yo!.)

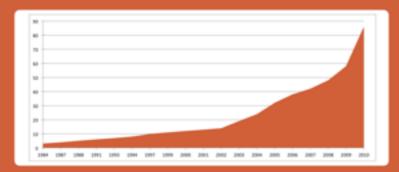




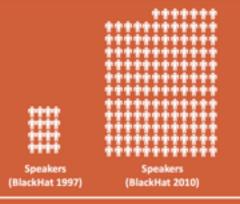
Number of Industry Related InfoSec conferences in 1997 VS.

Number of Industry Related Infosec conferences in 2010

Number of Conferences per year (1984-2010)



The Established Conferences keep getting bigger...



At Least one InfoSec Conference is going on in any given month (with 19 in October alone!)



That means an infosec conference is taking place for 205/365 days of the year

http://blog.thinkst.com

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For | Against?

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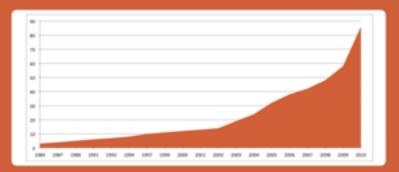




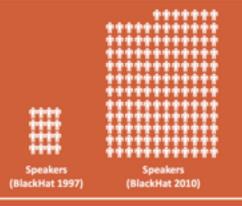
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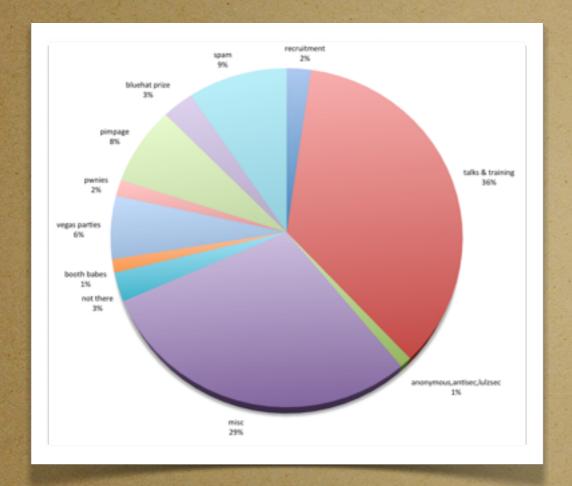
For | Against?

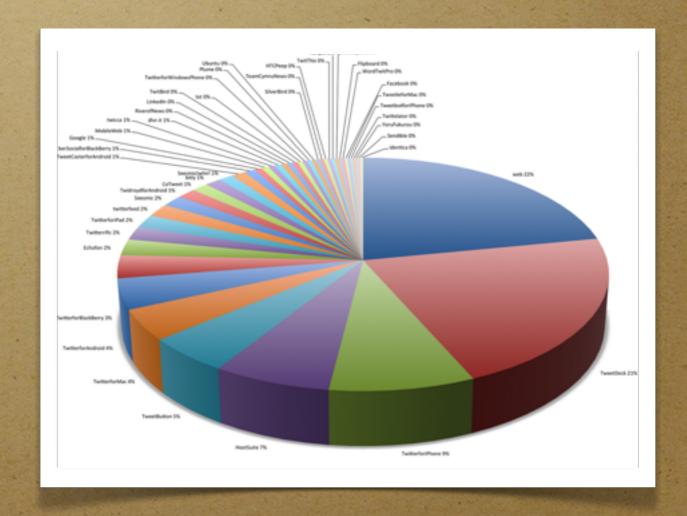
YES!

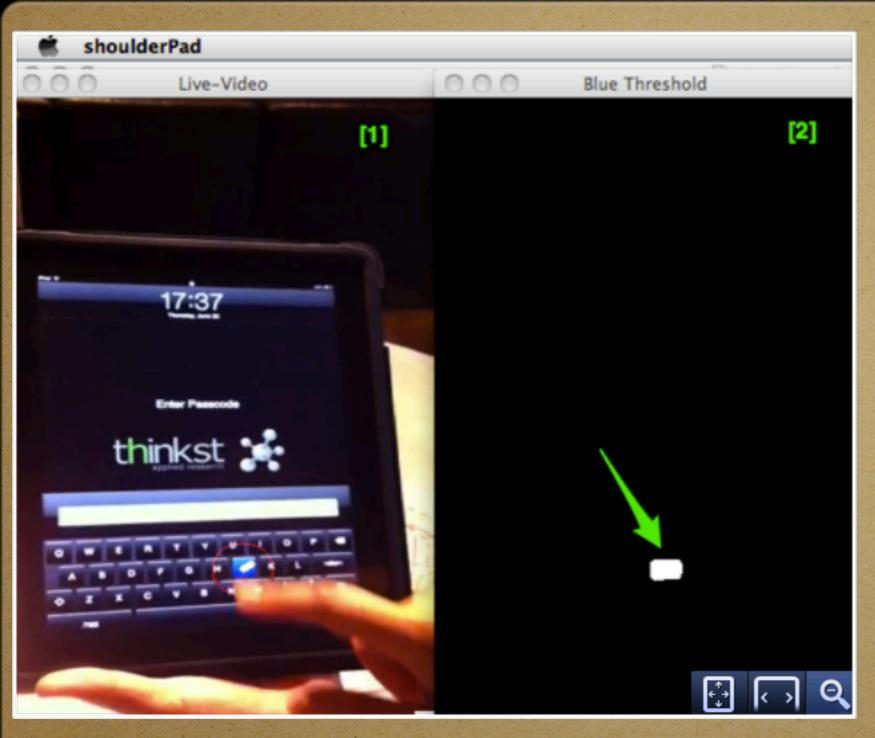
For Good Research

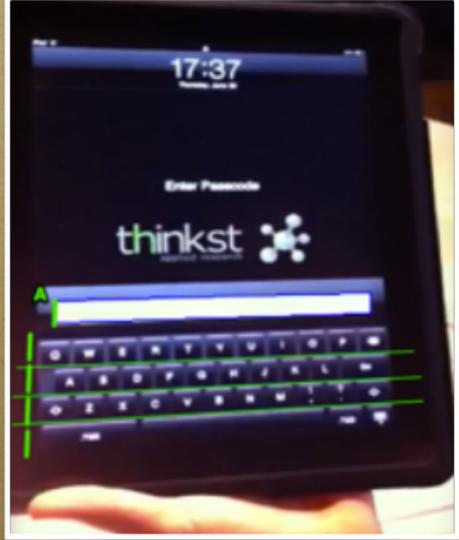
What's that?

Stuff we did the past year.. past year>

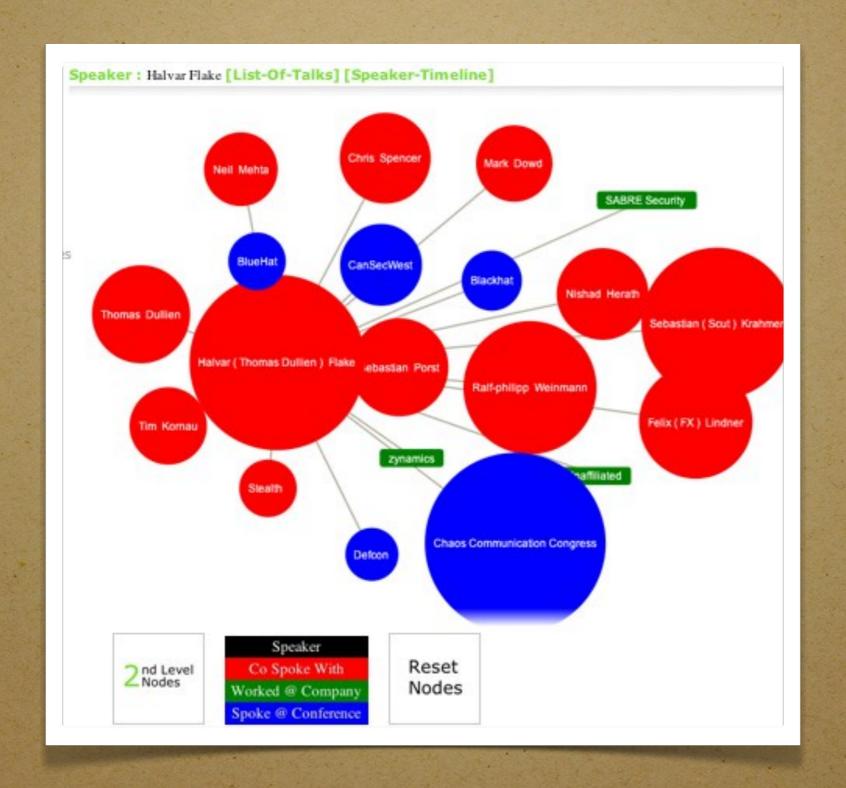


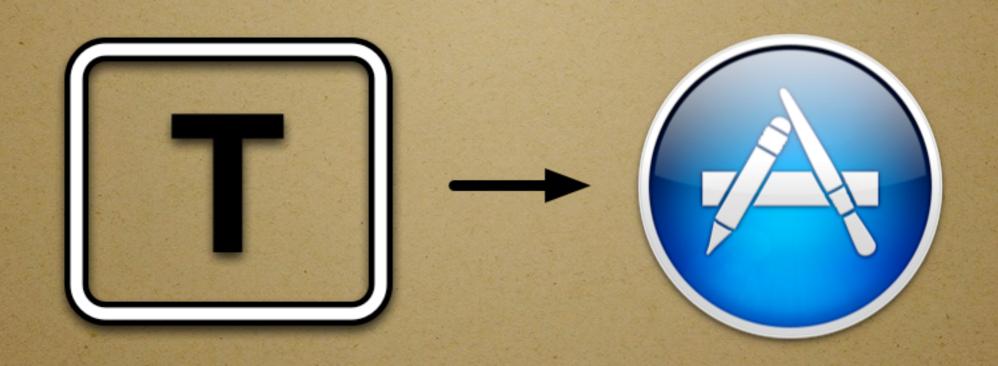




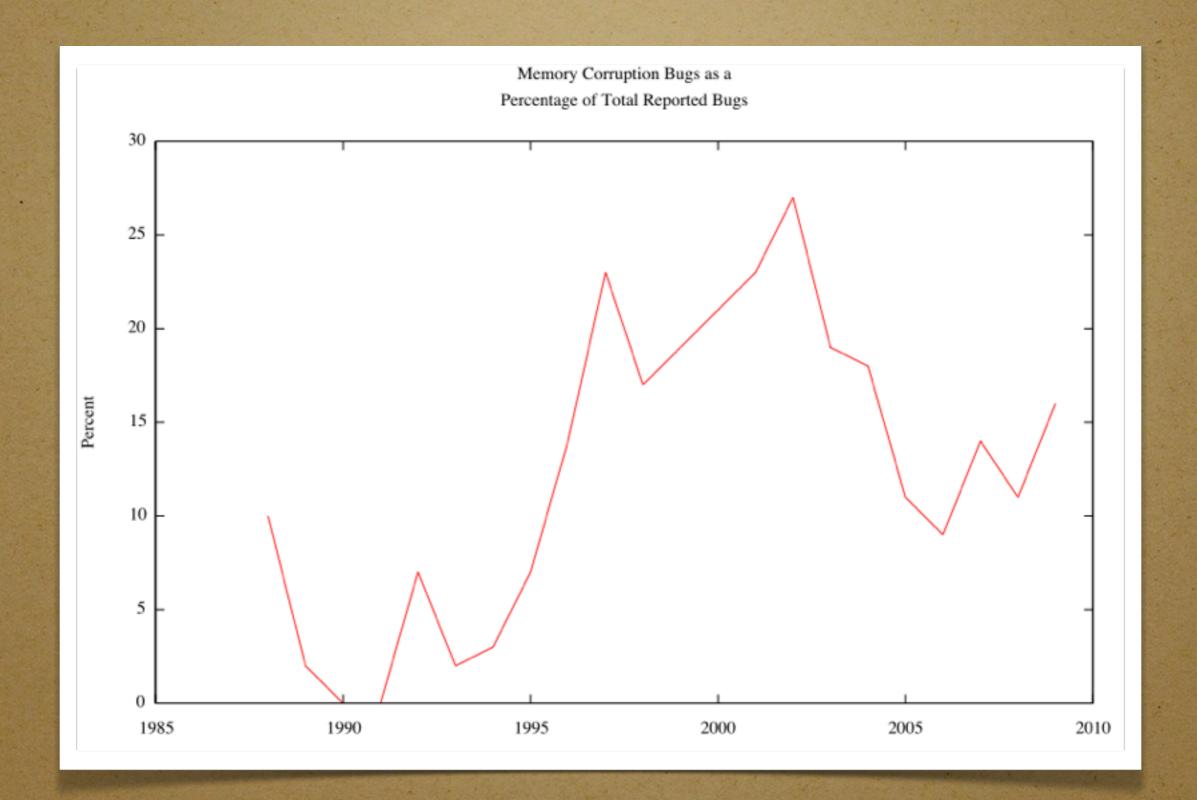


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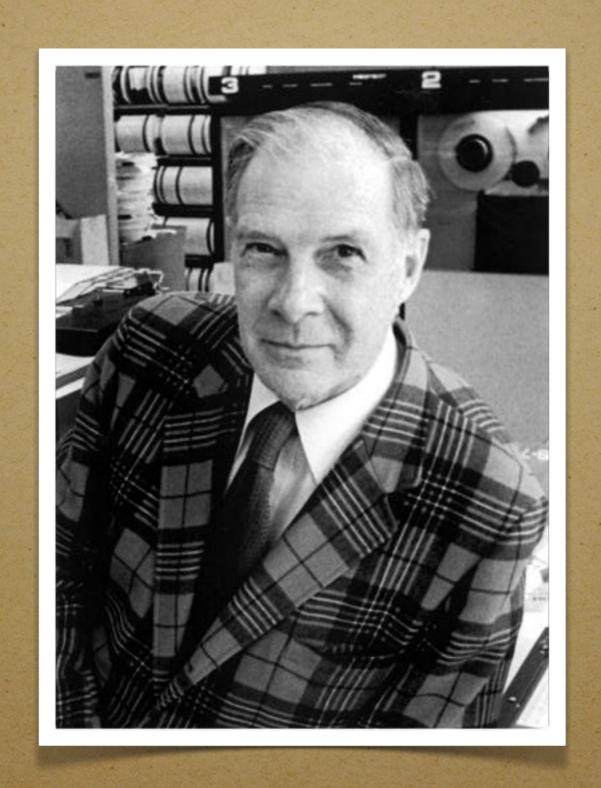






</past year>

i'm obviously poorly qualified



Richard Hamming "You and Your Research"

Transcription of the Bell Communications Research Colloquium Seminar 7 March 1986 "I'm not talking about ordinary run-of- the-mill research; I'm talking about great research"

"I mean those kinds of things which we perceive are significant things."

Now, how did I come to do this study?

I saw I was a stooge.

I saw Feynman up close.
I saw Fermi and Teller.
I saw Oppenheimer.
I saw Hans Bethe..

I became very interested in the difference between those who do and those who might have done. 2 Paragraphs in...

ό δὲ ἀνεξέταστος βίος οὐ βιωτὸς ἀνθοώπω

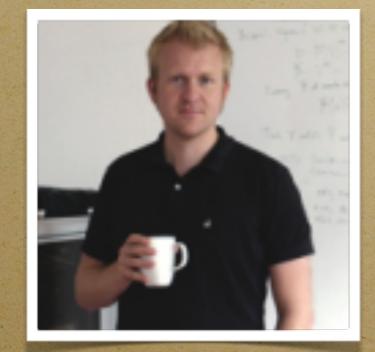
- Socrates

I became very interested in the difference between those who do and those who might have done.



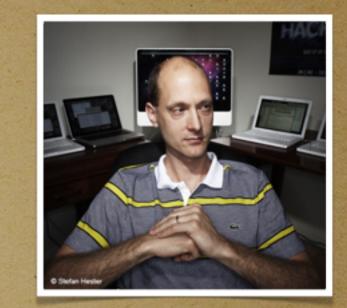












I continued examining the questions, "Why?" and "What is the difference?"

Wait. Wasn't he a mathematician?

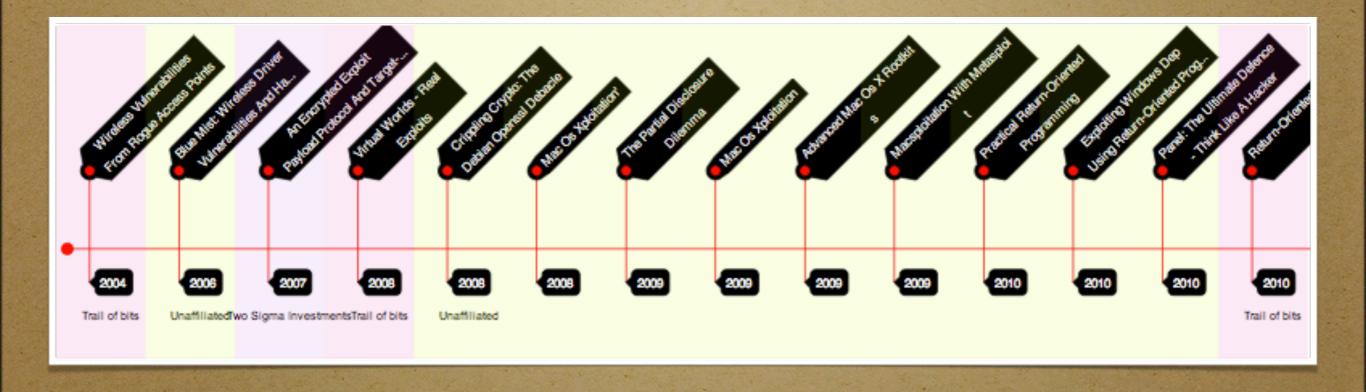
I will talk mainly about science because that is what I have studied. But .. much of what I say applies to many fields.

Outstanding work is characterized very much the same way in most fields,

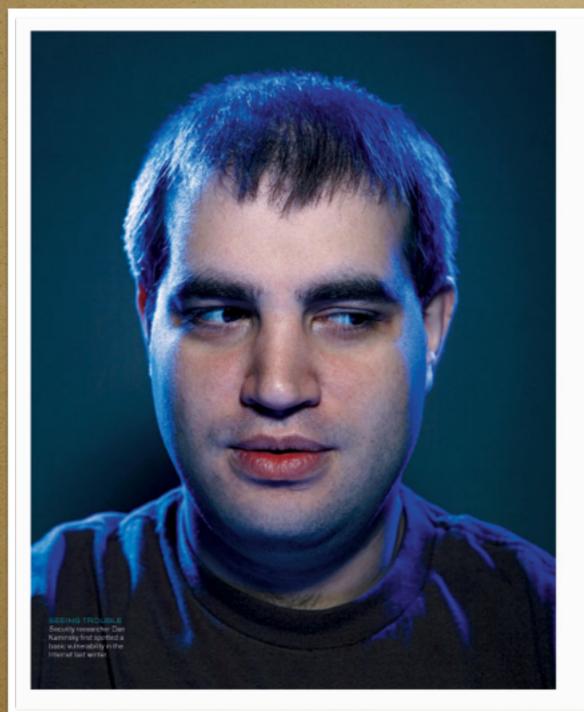
I have to get you to drop modesty and say to yourself, "Yes, I would like to do first-class work." I find that the major objection is that people think great science is done by luck.

Well, consider Einstein. Note how many different things he did that were good. Was it all luck?
Wasn't it a little too repetitive?

You see again and again, that it is more than one thing from a good person.







The Flaw at the Heart of the Internet

DAN KAMINSKY DISCOVERED A FUNDAMEN-TAL SECURITY PROBLEM IN THE INTERNET AND GOT PEOPLE TO CARE IN TIME TO FIX IT. IT'S A DRAMATIC STORY WITH A HAPPY END-ING ... BUT WE WERE LUCKY THIS TIME.

By ERICA NAONE

an Kaminsky, uncharacteristically, was not looking for bugs earlier this year when he happened upon a flaw at the core of the Internet. The security researcher was using his knowledge of Internet infrastracture to come up with a better way to stream videos to users. Kaminsky's expertise is in the Internet's domain name system (DNS), the protocol responsible for matching websites' URLs with the numeric addresses of the servers that host them. The same content can be hosted by multiple servers with several addresses, and Kaminsky thought he had a great trick for directing users to the servers best able to handle their requests at any given moment.

Normally, DNS is reliable but not nimble. When a computersay, a server that helps direct traffic across Comeast's networkrequests the numerical address associated with a given URL, it stores the answer for a period of time known as 'time to live,' which can be anywhere from seconds to days. This helps to reduce the number of requests the server makes. Kaminsky's idea was to bypass the time to live, allowing the server to get a fresh answer every time it wanted to know a site's address. Consequently, traffic on Comeast's network would be sent to the optimal address at every moment, rather than to whatever address had already been stored. Kaminsky was sure that the strategy could significantly speed up content distribution.

It was only later, after talking casually about the idea with a friend, that Kaminsky realized his "trick" could completely break the security of the domain name system and, therefore, of the Internet itself. The time to live, it turns out, was at the core of DNS security; being able to bypass it allowed for a wide variety of attacks, Kaminsky wrote a little code to make sure the situation was as bad as he thought it was. "Once I saw it work, my stormach dropped," he says. "I thought, What the beck am I going to do about this? This affects everything."

Kaminsky's technique could be used to direct Web surfers to any Web page an attacker chose. The most obvious use is to send people to phishing sites (websites designe dto trick people into entering banking passwords and other personal information, allowing an attacker to steal their identities) or other fake versions of Web pages. But the danger is even worse: protocols such as those used to deliver e-mail or for secure communications over the Internet ultimately rely on DNS. A creative attacker could use Kaminsky's technique to intercept sensitive e-mail, or to create forged versions of the certificates that ensure secure transactions between users and banking websites. "Every day I find another domino," Kaminsky says. "Another thing falls over if DNS is bad.... I mean, literally, you look around and see anything that's using a network—anything that's using a network—and it's probably using DNS."

Kaminsky called Paul Vixie, president of the Internet Systems Consertium, a nonprefit corporation that supports several aspects of Internet infrastructure, including the software most commonly used in the domain name system. "Usually, if somebody wants to report a problem, you expect that it's going to take a fair amount of time for them to explain it—maybe a whiteboard, maybe a Word document or two," Vixie says. "In this case, it took ao seconds for him to explain the problem, and another ao seconds for him to answer my objections. After that I said, 'Dun, I am speaking to you over an unsecure cell phone. Please do not ever say to anyone what you just said to me over an unsecure cell phone again."

Perhaps most frightening was that because the vulnerability was not located in any particular hardware or software but in the design of the DNS protocol itself, it wasn't clear how to fix it. In secret, Kaminsky and Vixie gathered together some of the top DNS experts in the world: people from the U.S. government and

Photograph by JOHN KEATLEY

resture story 43

"Luck favors the prepared mind"

The prepared mind sooner or later finds something important and does it.

So yes, it is luck. The particular thing you do is luck, but that you do something is not.

So what's a key characteristic?

the courage to pursue them

Lot's of Brains?

Great work is something else more than brains.

Bill Pfann & Clogston!

Corelan Team

:: Knowledge is not an object, it's a flow ::



Exploit writing tutorial part 1 : Stack Based Overflows

Corelan Team

:: Knowledge is not an object, it's a flow ::

Corelan Team

:: Knowledge is not an object, it's a flow ::

Exploit Writing Tutorials

- Universal DEP/ASLR bypass with msvcr71.dll and

- Hack Notes : Ropping eggs for breakfast
 Hack Notes : ROP retn+offset and impact on stack setup
 Exploit writing tutorial part 10 : Chaining DEP with ROP
 the Rubik's[TM] Cube
 Exploiting Ken Ward Zipper : Taking advantage of

- ▷ Ken Ward Zipper exploit write-up on abysssec.com
 ▷ QuickZip exploit article part 2 released on OffSec Blog
 ▷ Exploit writing tutorial part 9 : Introduction to Win32
- Starting to write Immunity Debugger PyCommands : my
- Exploit writing tutorial part 8 : Win32 Egg Hunting
 Exploit writing tutorial part 7 : Unicode from 0×00410041 to calc
- Exploit writing tutorial part 6 : Bypassing Stack Cookies, SafeSeh, SEHOP, HW DEP and ASLR
- Exploit writing tutorial part 5: How debugger modules & plugins can speed up basic exploit development
 Exploit writing tutorial part 4: From Exploit to Metasploit
- Exploit writing tutorial part 3b : SEH Based Exploits just another example
- just another example

 Exploit writing tutorial part 3 : SEH Based Exploits
- Exploit writing tutorial part 2 : Stack Based Overflows umping to shelloo
- Exploit writing tutorial part 1 : Stack Based Overflows

- Metasploit Bounty the Good, the Bad and the Ugly
- Universal DEP/ASLR bypass with msvcr71.dll and mona.py

 Hack Notes: Ropping eggs for breakfast

- mona.py

 HITB 2011 CTF Reversing Vectored Exception Handling (VEH)

 Honeynet Workshop 2011

 Pastenum – Pastebin/pastie enumeration tool

- Codegate 2011 CTF Binary200 Anti Debugging Techniques Explained
 Cheat sheet: Installing Snorby 2.2 with Apache2 and Suricata with Barnyard2 on Ubuntu 10.x
 Anti-debugging tricks revealed Defcon CTF Qualifications 2009: Bin300 Analysis
- Hack Notes: ROP retn+offset and impact on stack setup
- ➤ The Honeypot Incident How strong is your UF (Reversing FU)
 ➤ Death of an ftp client / Birth of Metasploit modules
 ➤ Cisco VoIP Phones A Hackers Perspective

- WATOBO the unofficial manual
- Exploit writing tutorial part 10 : Chaining DEP with ROP

- the Rubik's[TM] Cube

 > Blackhat Europe 2010 Barcelona Day 10

 > Blackhat Europe 2010 Barcelona Day 01

 > Exploiting Ken Ward Zipper : Taking advantage of payload conversion

- Ken Ward Zipper exploit write-up on abysssec.com
 QuickZip exploit article part 2 released on OffSec Biog
 Exploit writing tutorial part 9 : Introduction to Win32
- Starting to write Immunity Debugger PyCommands : my
- Exploit writing tutorial part 8 : Win32 Egg Hunting
- Exploit writing tutorial part 7 : Unicode from 0×00410041 to calc
- Fuzzing with Metasploit: Simple FTP fuzzer
 Exploit writing tutorial part 6: Bypassing Stack Cookies, feSeh, SEHOP, HW DEP and ASLR
- Exploit writing tutorial part 5: How debugger modules & plugins can speed up basic exploit development
 Exploit writing tutorial part 4: From Exploit to Metasploit
- Exploit writing tutorial part 3b : SEH Based Exploits -













Age

Einstein did things very early, and all the quantum mechanic fellows were disgustingly young when they did their best work.

Wait? Are we too old?

Lifetime Achievement Award

Most hackers have the personality of a supermodel who does discrete mathematics for fun. Like mathematicians, hackers get off on solving very obscure and difficult to even explain problems. Like models, hackers wear a lot of black, think they are more famous than they are, and their career effectively ends at age 30. Either way, upon entering one's fourth decade, it is time to put down the disassembler and consider a relaxing job in management.

This award is to honor the previous achievements of those who have moved on to bigger and better things such as management or owning (in the traditional sense) a coffee shop.

On the other hand, in music, politics and literature, often what we consider their best work was done late. I don't know how whatever field you are in fits this scale, but age has some effect.

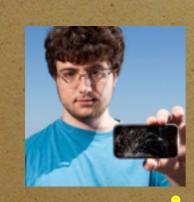


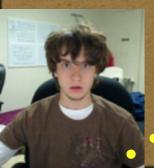




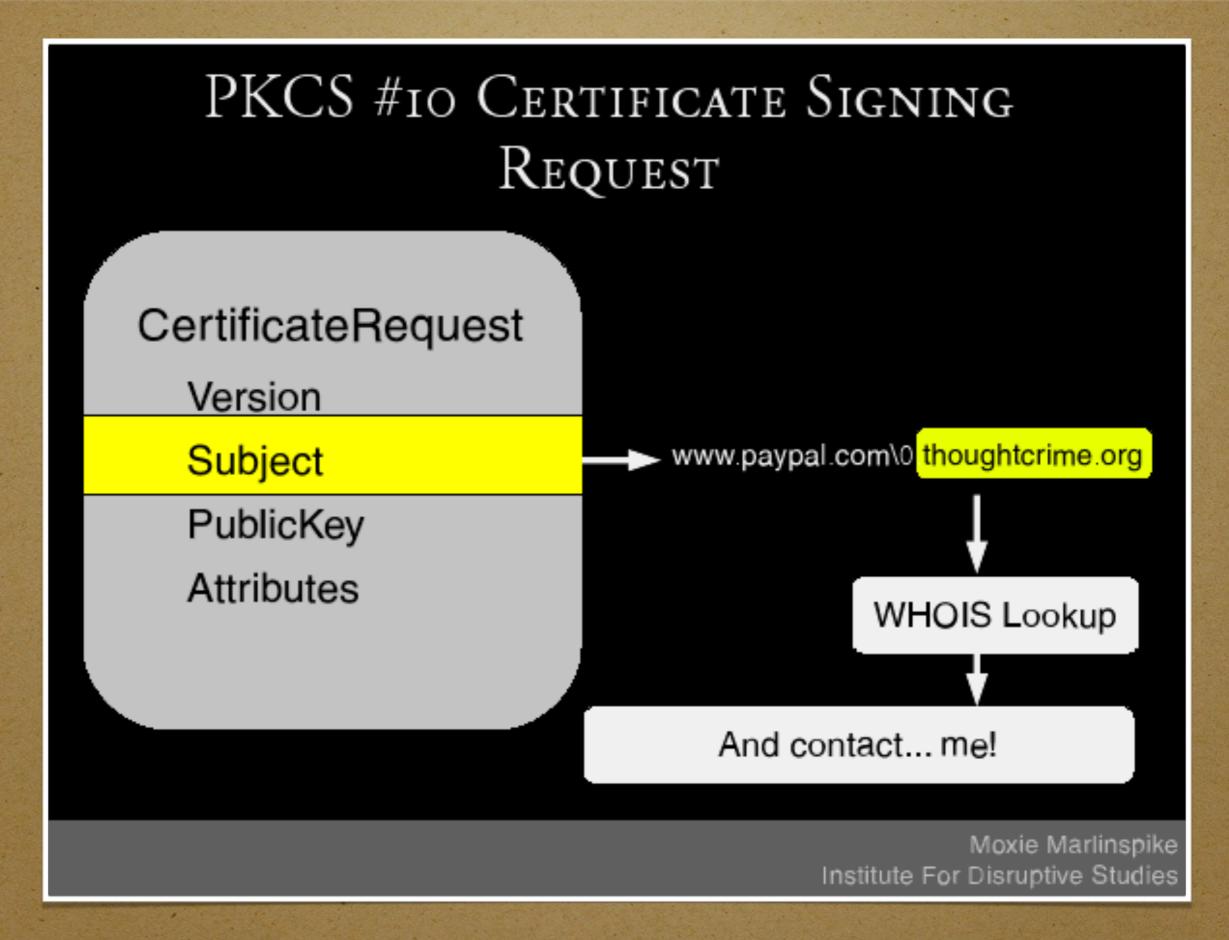








When you are famous it is hard to work on small problems. This is what did Shannon in. After information theory, what do you do for an encore?





♠ [-] Colonel_Ham_Sandwich 16 points 18 days ago

Firstly, congrats on the new internship, it sounds like a wonderful opportunity for you and I'm sure you'll love working with Apple.

I have a few question for you if wouldn't mind answering them. Firstly, why did you choose to get involved in specifically the iPhone jailbreaking scene, what was it attracted you to the iPhone? Secondly, did you always set out to be a hacker or was it just something that interested you and found you had a nack for? Finally, in regards to the PDF bug used for the JailbreakMe.com jailbreak, where on earth did you get the brilliant idea for it?

Thanks for doing this AMA!

permalink

♠ [-] comex [S] 23 points 18 days ago

Firstly, why did you choose to get involved in specifically the iPhone jailbreaking scene, what was it attracted you to the iPhone?

I had one... and it was a device that (a) had a lot of functionality, (b) had a nice and flexible UNIX OS, (c) already had an active homebrew community, and (d) was really cool. :p

Secondly, did you always set out to be a hacker or was it just something that interested you and found you had a nack for?

I never wanted to be a black hat hacker, but I did enjoy hacking (originally SQL injection and crap) as a natural extension of programming.

Finally, in regards to the PDF bug used for the JailbreakMe.com jailbreak, where on earth did you get the brilliant idea for it?

FreeType was one of the less studied open source components of iOS.

So you need lot's of free time!

This brings up the subject ..
of working conditions.
What most people think are
the best working
conditions, are not.

So what you need is..

Now for the matter of **drive**. You observe that most great scientists have tremendous drive. "If others would think as hard as I did, then they would get similar results."

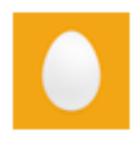












thegrugq

tell them that drinking that much takes effort and dedication, you can't just start out as the life of the party, you have to work at it! :D

8 hours ago 👚 Delete



Outliers

THE STORY OF SUCCESS

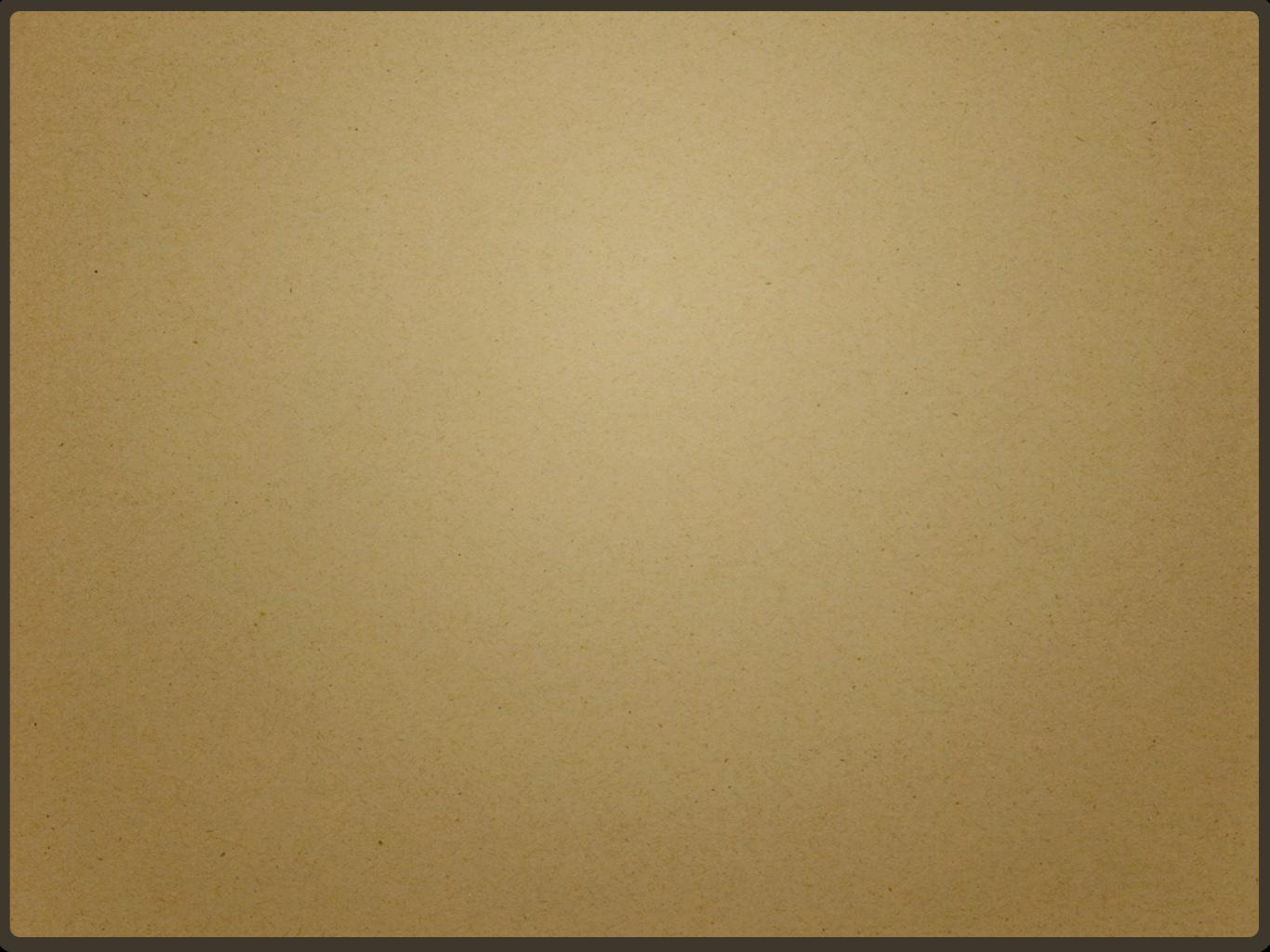
MALCOLM GLADWELL

#1 bestselling author of The Tipping Point and Blink

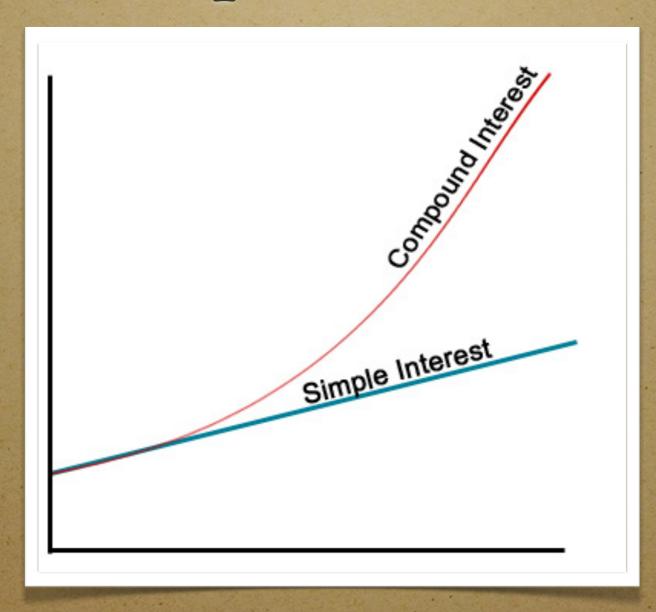
PERM

How can anybody my age know as much as John Tukey does?

"You would be surprised Hamming, how much you would know if you worked as hard as he did that many years"



Knowledge and productivity are like compound interest.



Knowledge and productivity are like compound interest.

The more you know, the more you learn; the more you learn, the more you can do; the more you can do, the more the opportunity

Given two people of approximately the same ability and one person who works ten percent more than the other, the latter will more than twice outproduce the former.

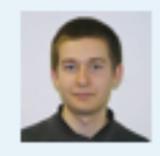


dinodaizovi Dino A. Dai Zovi 13 by taviso

If you have found a bug, chances are that someone else has also.

And chances also are that the person is @taviso.

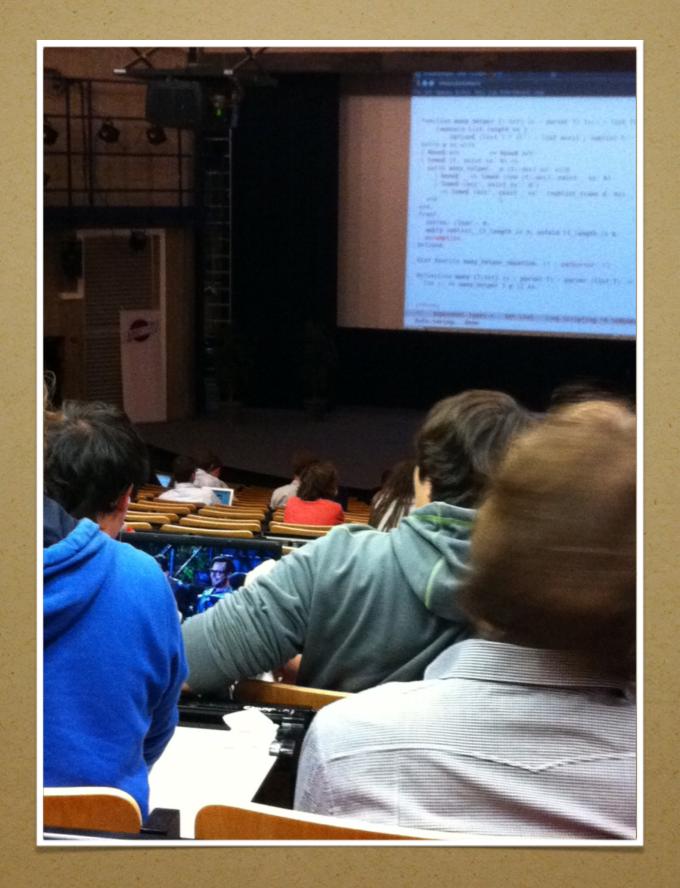
31 Aug 10 🏠 Favorite 📭 Retweet 🦘 Reply



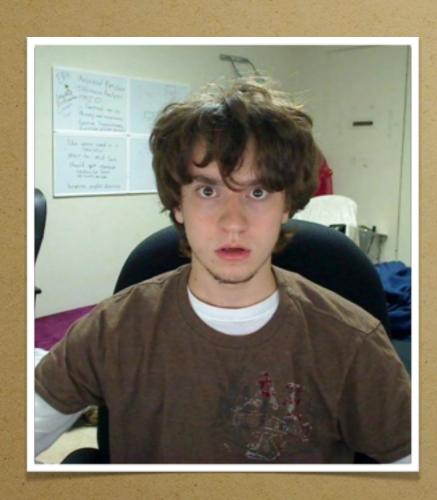
This crackme was really hard work...fun though.

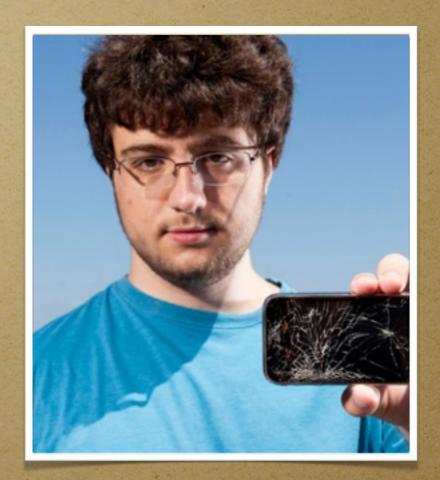
http://www.crackmes.de/users/crp/trace_q/

13 Apr 10 ☆ Favorite ♣ Retweet ♠ Reply



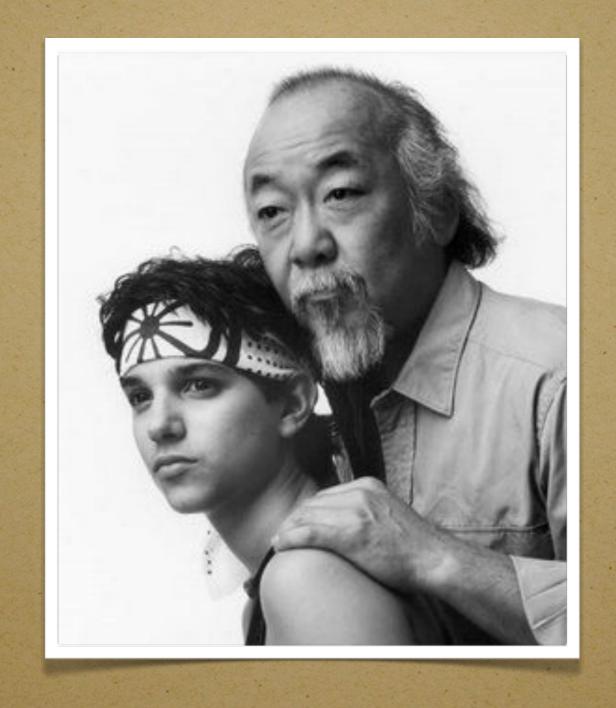
http://www.crackmes.de/users/crp/trace_q/solution/taviso





So it's a little bit hard?

Genius is 99% perspiration and 1% inspiration



Karate Kid Ruined Us!

It's a lot hard!

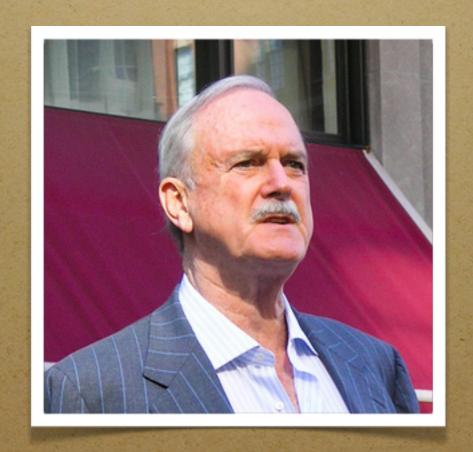
It comes down to an emotional commitment. Most great scientists are completely committed to their problem. Those who don't become committed seldom produce outstanding, first-class work.

Everybody who has studied creativity is driven finally to saying:

"creativity comes out of your subconscious."

Everybody who has studied creativity is driven finally to saying:

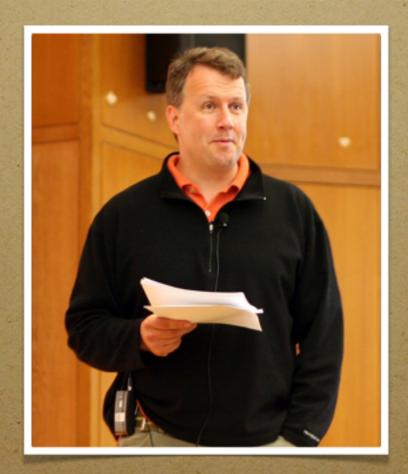
"creativity comes out of your subconscious."



http://www.youtube.com/watch?v=zGt3-fxOvug

Everybody who has studied creativity is driven finally to saying:

"creativity comes out of your subconscious."



http://www.paulgraham.com/top.html

Didn't he ever rest?

Lunch with the Chemists..

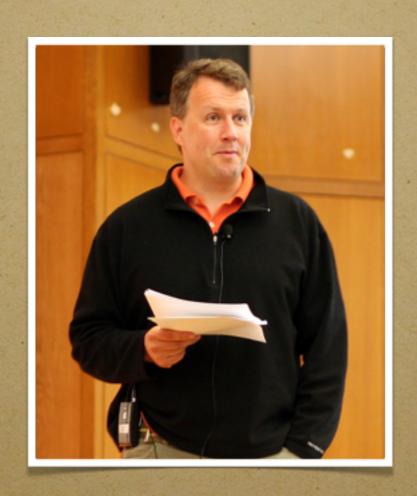
What are the important problems of your field?

What important problems are you working on?

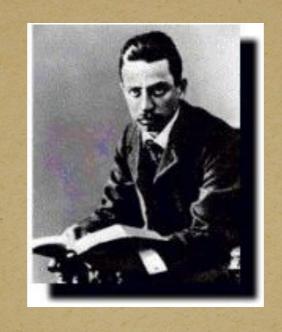
The average

scientist, so far as I can make out, spends almost all his time working on problems which he believes will not be important and he also doesn't believe that they will lead to important problems.

Good & Bad Procrastination



Great Thoughts Time.



When we win it's with small things, and the triumph itself makes us small.

What is extraordinary and eternal does not want to be bent by us.

Be Prepared..

Most great scientists know many important problems. They have something between 10 and 20 important problems for which they are looking for an attack. And when they see a new idea come up, one hears them say "Well that bears on this problem."

They drop all the other things and get after it.

"a horror story"

"they came in second!"

What if I have to work on little problems?

I want to talk on another topic. It is based on the song which I think many of you know:

"It ain't what you do, it's the way that you do it."

+ -- --=[msfconsole v2.0 [19 exploits - 27 payloads]

<u>msf > </u>show exploits

Metasploit Framework Loaded Exploits

apache_chunked_win32 blackice_pam_icq exchange2000_xexch50 frontpage_fp30reg_chunked ia webmail iis50_nsiislog_post iis50_printer_overflow iis50_webdav_ntdll imail_ldap msrpc_dcom_ms03_026 mssql2000_resolution poptop_negative_read realserver_describe_linux samba_trans2open sambar6_search_results servu mdtm overflow solaris_sadmind_exec upnp_winxp warftpd_165_pass

Apache Win32 Chunked Encoding Blackice/RealSecure/Other ISS ICQ Parser Buffer Overflow Exchange 2000 MS03-46 Heap Overflow Frontpage fp30reg.dll Chunked Encoding IA WebMail 3.x Buffer Overflow IIS 5.0 nsiislog.dll POST Overflow IIS 5.0 Printer Buffer Overflow IIS 5.0 WebDAV ntdll.dll Overflow IMail LDAP Service Buffer Overflow Microsoft RPC DCOM MS03-026 MSSQL 2000 Resolution Overflow PoPToP Negative Read Overflow RealServer Describe Buffer Overflow Samba trans2open Overflow Sambar 6 Search Results Buffer Overflow Serv-U FTPD MDTM Overflow Solaris sadmind Command Execution Universal Plug N Play Overflow War-FTPD 1.65 PASS Overflow





You should do your job in such a fashion that others can build on top of it, so they will indeed say, "Yes, I've stood on so and so's shoulders and I saw further."

+ -- --=[msfconsole v2.0 [19 exploits - 27 payloads]

<u>msf > </u>show exploits

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It's very ugly; you shouldn't have to do it



dinodaizovi Dino A. Dai Zovi 13 by taviso

I learned years ago that if you care what the public thinks about your research or ideas, you must do marketing. Sucks, but it's true.

10 Aug 10

it is not sufficient to do a job, you have to sell it.

Summary

- Work on important problems;
- Deny that it is all luck (pasteur)
- Great Thoughts

Is the effort .. worth it?



Absolutely..
The result is worth the struggle

.. because the truth is, the value is in the struggle more than it is in the result. The struggle to make something of yourself seems to be worthwhile in itself. The success and fame are sort of dividends, in my opinion.

so why do so many people, with all their talents, fail?

Well, one of the reasons is drive and commitment.

The people who do great work with less ability but who are committed to it, get more done that those who have great skill and dabble in it, who work during the day and go home and do other things and come back and work the next day.

You can lead a nice life; .. or you can be a great scientist.

If you want to lead a nice happy life with a lot of recreation and everything else, you'll lead a nice life.

The second thing is, I think, the problem of personality defects.

a.. personality defect is ego assertion..

and then most presciently..

Many a second-rate fellow gets caught up in some little **twitting** of the system, and carries it through to warfare.

self delusion..

There are so many alibis. Why weren't you first? Why didn't you do it right? Don't try an alibi. Don't try and kid yourself. You can tell other people all the alibis you want. I don't mind. But to yourself try to be honest.

you need to know yourself, your weaknesses, your strengths, and your bad faults, like my egotism.

Summary (People don't win because)

- Don't work on important problems;
- Don't become emotionally involved;
- Keep giving themselves alibis
- Keep saying "it's luck"

I've told you how easy it is; furthermore I've told you how to reform. Therefore, go forth and become great

Vragen?

http://blog.thinkst.com @haroonmeer