

Try Harder 2 Be Yourself

Individuality is Key

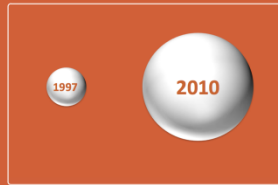
Phenoelit

Why Do We Hack?

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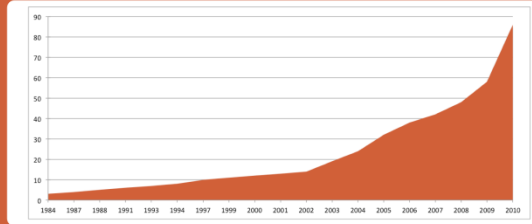
- 00000
- 00010 ■ It used to be all about curiosity
- 00020
- 00030 ■ Access to rare stuff
- 00040
- 00050 ■ “How the fuck did he do that?”
- 00060
- 00070 ■ “I wonder if I could ...?”
- 00080
- 00090 ■ Also: getting vendors to move
- 000A0
- 000B0 ■ Today’s reasons are different
- 000C0
- 000D0 ■ Publicity + career points
- 000E0
- 000F0 ■ Bug bounty programs
- 00100
- 00110 ■ Exploit sales
- 00120
- 00130 ■ Hacktivism
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- 00150 ■ Speaking at conferences
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Setec Astronomy Setec Confer Moan (yo!..)

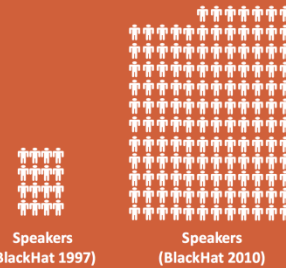


Number of Industry Related InfoSec conferences in 1997
vs.
Number of Industry Related Infosec conferences in 2010

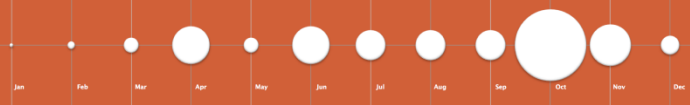
Number of Conferences per year (1984-2010)



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





black hat
March 14-18, 2012
Wednesday, March 14
10:00
te:
file
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Why Do We Go To Conferences?

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Text View: K:\KEYNOTE.EXE          Col 0          270,650 Bytes          0%
00000  ■ Commonly cited reasons:
00010  ■ “To meet other like-minded people”
00020  ■ “Meet old friends”
00030  ■ “Meet new people”
00040  ■ Actual reasons:
00050  ■ “I like alcohol and 0day!”
00060  ■ “I’m getting paid to talk to those people
00070  that like alcohol and zero day.”
00080  ■ Essentially, we ask to be influenced
00090  ■ That’s a good thing!
00100  ■ self-reflection
00110  ■ Respect
00120  ■ Learning
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1Help 2Unwrap 3 4ASCII 5 6 7Search 8Viewer 9Print 10Quit
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What Speaking Means (to me)

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- Not speaking:
Do strange research you love
vs.
- Speaking:
Do strange research you love
and present it to people smarter
than yourself
 - The people in the audience are
offering you an hour of their life
time to review your shit!
 - This might be embarrassing
 - Halvar to me: “You fucked up every Turing
reference you did. So give me a cigarette.”

How Hacking Is Done

Know Your History

Hacking in the 1960

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- Username: system
Password: manager



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Hacking in the 1980s

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ UNIX r-services
- 00020
- 00030 ■ NFS exports
- 00040
- 00050 ■ RPC services
- 00060
- 00070 ■ Anonymous FTP servers
- 00080
- 00090 ■ Default passwords
- 000A0
 - 000B0 ■ Or none at all for SGI Irix
- 000C0
- 000D0
- 000E0 ■ Password guessing (“GOD”)
- 000F0
- 00100 ■ Sendmail .forward pipes
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Hacking in the 1990s

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00010  ■ Read BugTraq, hack sendmail (again)
00020
00030  ■ ping -l 65510
00040
00050    ■ Microsoft windows 9x and NT
00060
00070    ■ Sun Solaris
00080
00090    ■ SCO UNIX
000A0
000B0    ■ Novell Netware
000C0
000D0    ■ Apple Mac
000E0
000F0  ■ cd ~/some/open/source && grep
00100  strcpy *.c
00110
00120
00130  ■ Also: Port Scanning!!1!
00140
00150
00160
1Help  2Unwrap  3  4ASCII  5  6  7Search  8Viewer  9Print  10Quit
```

Hacking in the 2000s

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ cd ~/some/open/source && grep -E -e
- 00020 'printf\s*\([^"]+[, \)]' *.c
- 00030
- 00040 ■ 7350 x2
- 00050
- 00060 ■ solaris sadmind
- 00070
- 00080 ■ Cisco UDP echo
- 00090
- 000A0 ■ Worms!!1!
- 000B0
- 000C0 ■ Heap Spraying
- 000D0
- 000E0 ■ Fuzzing
- 000F0
- 00100 ■ Rise of the client-side attacks
- 00110
- 00120 ■ Rise of the web application bugs
- 00130
- 00140
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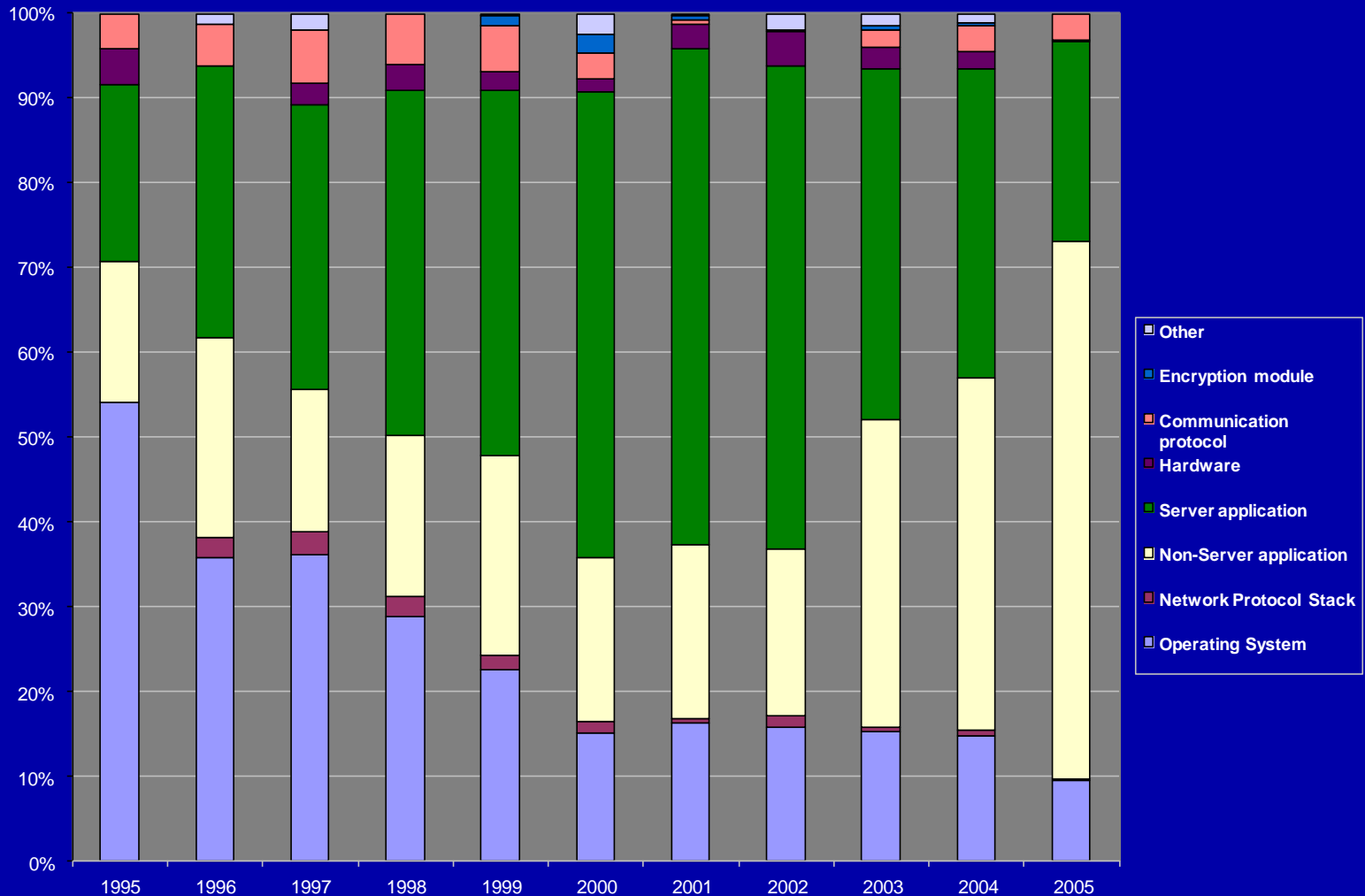
Hacking in the 2000s

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Also...

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Hacking in the 2010s

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Text View: K:\KEYNOTE.EXE          Col 0          270,650 Bytes  0%
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00010  ■ W^X, DEP, ASLR, KASLR, Safe-SEH,
00020  stack cookies, fortify source
00030
00040  ■ ROP goes mainstream
00050
00060  ■ Jailbreaks
00070
00080  ■ Kingcope's BSD telnetd Remote Root
00090
000A0  ■ Java client side bugs
000B0
000C0  ■ for i in $(cat emails.txt);do(cat
000D0  fish.txt|mail -s "Facebook Account
000E0  Verification" $i);done
000F0
00100
00110  ■ Google, Dropbox, Amazon, iCloud
00120
00130
00140  ■ Anonymous!!1!
00150
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```



And Now?

where Are We Heading?

What Is Big Right Now: The Cloud

```
Text View: K:\KEYNOTE.EXE          Col 0          270,650 Bytes  0%
00000  ■ The Cloud™ means virtualization
00010  technologies everywhere
00020
00030  ■ OS virtualization
00040  ■ Network virtualization
00050  ■ Storage virtualization
00060  ■ Several metric tons of management
00070
00080  ■ The change in “ownership” is
00090  important for the researcher
000A0
000B0
000C0  ■ Even if you don’t “own” the software,
000D0  testing, fuzzing and debugging a local
000E0  copy is pretty hard to prevent
000F0
00100  ■ Testing and playing with the cloud can
00110  land you in jail pretty quickly
00120
00130  ■ Plus, you might hand your 0day over the moment
00140  you find it
00150  ■ Few clouds allow testing (e.g. Microsoft)
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1Help  2Unwrap  3  4ASCII  5  6  7Search  8Viewer  9Print  10Quit
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What Is Big Right Now: The Cloud

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000 ■ The Cloud™ means that hacking goes
00010 back to a mainframe host scenario
00020
 - 00030 ■ There are two reasons that mainframe
00040 exploits are so rare:
00050
 - 00060 1. They were actually designed and built with a
00070 lot of security in mind
 - 00080 2. They were pretty hard to get to
- 00090 ■ IMHO, hacking PAS and SAS will tend
000A0 to be much more observation centric
000B0 than testing centric
000C0
 - 000D0 ■ Observation is hard to prevent
 - 000E0 ■ Few and far between testing is hard to
000F0 detect
- 00100 ■ IAS comes down to finding Xen
00110 breakouts and building the image
00120
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What Is Big Right Now: Mobile Devices

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- 00000 ■ Mobile devices are the natural counter-point to Cloud services
- 00010
- 00020
- 00030 ■ The security models differ significantly depending on the goal of the vendor
- 00040
- 00050
- 00060
- 00070
- 00080 ■ Apple protects their business model
- 00090 ■ Google protects the user's believes
- 000A0
- 000B0 ■ Mobile Apps roll software security back to the 90s
- 000C0
- 000D0
- 000E0 ■ written by former Adobe Flash coders
- 000F0 ■ Mass produced in numbers never seen before
- 00100
- 00110 ■ Objective-C is a programming language that could not have been designed worse if it were intentional
- 00120
- 00130
- 00140
- 00150 ■ Many underestimated attack vectors
- 00160

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1 Help  2 Unwrap  3  4 ASCII  5  6  7 Search  8 Viewer  9 Print 10 Quit
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What Is Big Right Now: SCADA !!1!

Nix hören, nix arbeiten, einfach nur ...



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Also...

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SORRY MARIO
THE PRINCESS
IS IN ANOTHER
CASTLE

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Military Hacking

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- 00000 00010 00020 00030 00040 00050 00060 00070 00080 00090 000A0 000B0 000C0 000D0 000E0 000F0 00100 00110 00120 00130 00140 00150 00160
 - Military and intelligence hacking is nothing new
 - Neither the practice nor the targets
 - Stuxnet, Gaus, Flame etc. only allowed the general public a glimpse
 - The difference is in the resources, tactics and techniques
 - The military industrial complex now invests more in attack technologies than the cybercrime market
 - This opens a lot of possibilities for the attackers in terms of R&D
 - Case in point: Nobody pulls a new MD5 collision attack out of their ass
 - Depending on international developments, it might also be the only area of unpunished in-the-wild hacking for a while

What Might Get Big

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000 ■ Cryptography Bugs
 - 00010 ■ Cryptography is still considered fairy dust: Have crypto, be secure!
 - 00020
 - 00030
 - 00040 ■ Check Greg's excellent talk "Non-obvious bugs by example"
 - 00050
 - 00060
- 00070 ■ Parallel Execution Bugs
 - 00080
 - 00090 ■ Very hard to spot in source code
 - 000A0 ■ Almost impossible to find by fuzzing
 - 000B0
 - 000C0 ■ Almost everything today has multiple cores or CPUs or both
 - 000D0
 - 000E0
- 000F0 ■ Lower level processors
 - 00100 ■ Trusted by the application CPU
 - 00110 ■ Already started with GSM Baseband research
 - 00120 ■ System Management Controllers, ILO, etc.
 - 00130
 - 00140 ■ There is a ton of this in today's devices
 - 00150
 - 00160

1 Help 2 Unwrap 3 4 ASCII 5 6 7 Search 8 Viewer 9 Print 10 Quit

When Bug Count Isn't Everything

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- 00000 00010 ■ when hacking, I believe one can also
00020 do something for the common good:
00030
 - 00040 ■ Before Barnaby Jack publicly hacked
00050 insulin pumps, only one medical device
00060 vendor cared
00070
 - 00080 ■ Before Dillon Beresford took a deeper look
00090 at Siemens PLCs, no vendor cared about
000A0 their base operating system
000B0
 - 000C0 ■ Now Siemens is the only one not caring
000D0
 - 000E0 ■ Nils' PinPadPwn demonstration should
000F0 change quite a few payment systems
- 00100 ■ while hackers, we are also humans
00110
 - 00120 ■ At some point, even you and me will have
00130 to use a PIN-Pad to pay for stuff
00140
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When Bug Count Isn't Everything

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ Product Security is a cost center
- 00020 for the vendor – it makes no money
- 00030
- 00040
- 00050 ■ They need a Backup-Effect in order to
- 00060 justify the expenses to do it:
- 00070 Only when data is lost do people care
- 00080 about and invest in backups.
- 00090
- 000A0
- 000B0
- 000C0 ■ This is called passion!
- 000D0
- 000E0 ■ Maybe money isn't everything?
- 000F0
- 00100 ■ A hacker does for love what others
- 00110 can't even do for money.
- 00120
- 00130
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Target Selection

Where Individuality Shines

Stay Naïve

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- 00000 ■ Naivety was always an important part
00010 of hacking
- 00020
- 00030
- 00040 ■ Remember the movie “Hackers”? The kiddy
00050 was the one hacking the Gibson.
- 00060
- 00070 ■ Whether you think that you will find
00080 a vulnerability or not, you will be
00090 right.
- 000A0
- 000B0
- 000C0 ■ Stubbornness is pretty useful
- 000D0
- 000E0 ■ It also compensates for talent ;)
- 000F0
- 00100 ■ Hacking is often about frustration
00110 resilience more than anything else
- 00120
- 00130 ■ Or about not getting frustrated in the
00140 first place, a.k.a. expectation management
- 00150
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Target Selection

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- It helps to find targets that genuinely interest you
 - Targets that are boring you to death are missing the inherent motivation
 - Rage can be pretty motivating
- Don't hack things just because everyone else is hacking them
 - Unless you are hunting for bug bounties
- Understand whether your target environment is competitive by nature
 - Act accordingly

Size Does Matter

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00010 ■ Bigger targets are usually juicier

00020

00030 ■ More code =

00040

00050 ■ More attack surface =

00060

00070 ■ More chances for vulnerabilities

00080

00090 ■ Average of vulnerability per lines

000A0 of source code is relatively stable

000B0

000C0 ■ Bigger targets are admin bitches

000D0

000E0 ■ Harder to set up and configure right

000F0

00100 ■ Your tools will have a harder time

00110

00120 ■ More code to wade through, because

00130

00140 it's not relevant

00150

00160

1 Help

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Means To An End

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Purpose	Methods
Criminal	Browser injectors Kernel rootkits and key logger AV evasion Fishing and C&C site management
Bug bounties vulnerability sales	Fuzzing at scale & in .fi style Automation and industrialization Static analysis
Exploit sales	Targeted fuzzing Static and runtime analysis Exploit reliability
Publicity	Fancy target selection Hardware hacking Output frequency
Fun	☺

1 Help

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A Word About Fuzzing

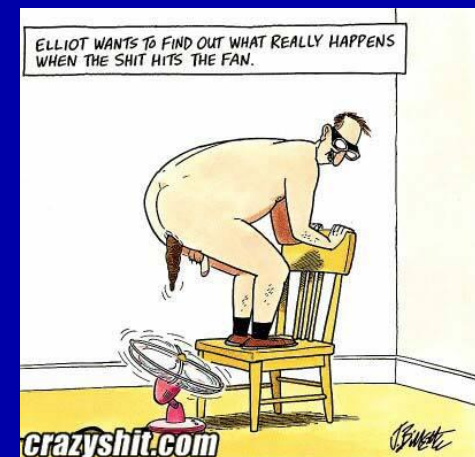
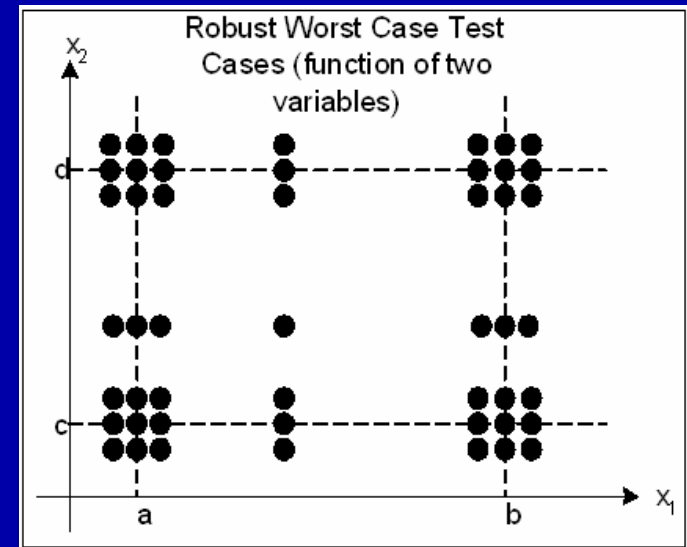
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- 00000 ■ I concur that fuzzing
00010 finds a lot of bugs
00020 these days
- 00030 ■ Especially in complex
00040 software (e.g.
00050 Browsers)
- 00060 ■ That doesn't prove
00070 fuzzing to be superior
00080 – it only proves the
00090 shitty state our
000A0 software is in
- 000B0 ■ What you are doing is
000C0 called Robust Worst
000D0 Case Testing
- 000E0 ■ It has an exponential
000F0 effort grow with the
00100 number of variables
00110 being the exponent
00120
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crazyshit.com

Method Selection

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- 00000 ■ There are many ways to find
- 00010 vulnerabilities:
- 00020
- 00030 ■ Manual testing
- 00040 ■ Fuzzing
- 00050 ■ Static source code analysis
- 00060 ■ Static binary code analysis
- 00070 ■ Runtime analysis
- 00080 ■ Diffing
- 00090 ■ Reading Specifications
- 000A0
- 000B0
- 000C0
- 000D0
- 000E0
- 000F0 ■ The key is to do what suites you best
- 00100 ■ Not everyone reads code like Halvar
- 00110 ■ Not everyone breaks crypto like Greg
- 00120
- 00130
- 00140 ■ Be individual!
- 00150
- 00160

Bad News

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- There is no silver bullet in Computer Security
 - Yes, that includes offense!



1 Help 2 Unwrap 3 4 ASCII 5 6 7 Search 8 Viewer 9 Print 10 Quit

And You?

Where Do You Stand?

Don't Let Anyone Tell You What To Do

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- Most people that lecture you on ethics don't follow those themselves
 - Digital human rights activists who also head companies selling to military or criminal mob
 - People bashing Microsoft while sitting at their campus getting paid by them
 - People writing spy software for oppressive governments while claiming to be left wing activists
 - Do you think Adrian Lamo is an exception?
- There are many aspects to consider
 - Other people's opinion isn't one of them

To Sell or Not To Sell?

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000 00010 ■ Is selling exploits like selling
00020 weapons?
00030
- 00040 ■ Do you think it should be illegal?
00050
- 00060 ■ Do you think you can control what your
00070 exploit is used for?
00080
- 00090 ■ Do you care?
000A0
- 000B0 ■ what about regulating use?
000C0
- 000D0 ■ Is it better or worse than leaking
000E0 docs to wikileaks?
000F0
- 00100 ■ „Do whatever you want. Trust your
00110 guts, your humanly feelings, your
00120 very limited knowledge. This is
00130 best effort.” – Julio Auto
00140
00150
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1Help 2Unwrap 3 4ASCII 5 6 7Search 8Viewer 9Print 10Quit

Vendor Communication?

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Text View: K:\KEYNOTE.EXE          Col 0          270,650 Bytes  0%
00000  ■ Should you talk to the vendor?
00010      ■ Do they even have a contact address?
00020      ■ Did you consider their previous track record?
00030      ■ Maybe ask someone with prior experience?
00040      ■ If in doubt, hand it off to a CERT.
00050  ■ How much time should you allow for a fix?
00060      ■ RFPolicy 2.0 calls for 2 weeks warning
00070      ■ Most fix times declared by vendors are bullshit
00080          ■ Some are not
00090          ■ Use your best judgment and gut feeling
000A0      ■ Can you accept being beaten by someone else
000B0          releasing before you?
000C0          ■ If the vendor half-releases, that's going to happen
000D0  ■ Don't let a vendor scare you away from
000E0  disclosure with legal threats
000F0      ■ I have not heard of a successful legal action
00100          that didn't have another aspect
00110          ■ If you violated NDAs, you are fucked anyway
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1Help  2Unwrap  3  4ASCII  5  6  7Search  8Viewer  9Print  10Quit
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To Anonymous or Not To Anonymous?

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- 00000
- 00010 ■ Which Anonymous are we talking about?
- 00020 ■ Many independent groups
- 00030 ■ Probably as many goals as “members”
- 00040 ■ Difficult to assess
- 00050
- 00060
- 00070
- 00080 ■ Considerable risk
- 00090 ■ See The Grugg’s talk
- 000A0 ■ Obvious and hence high priority target for
- 000B0 Law enforcement
- 000C0 ■ Consider that LEO people have KPIs too
- 000D0
- 000E0
- 000F0
- 00100
- 00110 ■ A highly personal decision
- 00120 ■ One that should probably be kept private
- 00130 ■ One that can have significant consequences
- 00140
- 00150
- 00160

To Cyberwar or Not To Cyberwar?

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- 00000 00010 00020 00030 00040 00050 00060 00070 00080 00090 000A0 000B0 000C0 000D0 000E0 000F0 00100 00110 00120 00130 00140 00150 00160
 - Militaries and intelligence services around the world are dying for skilled personal
 - Their demand probably exceeds the currently available global supply
 - Not everyone's favorite idea of a working place
 - "Plush Bunker"
 - Depending on your country, quitting might not be an option
 - Once intelligence, always intelligence
 - Security clearances can become chain on your leg for life
 - Still, a surprising number of people choose this path
 - See Military Hacking

Why I Always Stayed Legal & Public

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- 00000
- 00010 ■ It's easier to reason with others
- 00020 ■ Defends against politician's arguments
- 00030
- 00040 ■ It's better paid
- 00050 ■ No need to monetize but plenty of options
- 00060 ■ It's a global business, no need to sell
- 00070 locally
- 00080
- 00090
- 000A0
- 000B0 ■ It's more relaxing
- 000C0 ■ OpSec is pretty annoying over time
- 000D0 ■ when you get older, you want it easy
- 000E0
- 000F0
- 00100
- 00110 ■ You get to talk to other people
- 00120 without being worried that they fuck
- 00130 you over
- 00140
- 00150
- 00160

1Help 2Unwrap 3 4ASCII 5 6 7Search 8Viewer 9Print 10Quit

Some Things Cannot Be Individualized

why I loved PTS-DOS,
but don't like Kaspersky.

Know Your Basics

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

```
00000 #!/usr/bin/perl --machine=fullturing
00010 $n=<>;
00020 while($n!=1){
00030   if($n%2==0){$n=$n/2;}
00040   else{$n=3*$n+1;}
00050   printf("%u\n", $n);
00060 }
00070
00080
00090
00100
```

- 00110 ■ Credits:
 - 00120 ■ Alan Turing
 - 00130 ■ Lothar Collatz

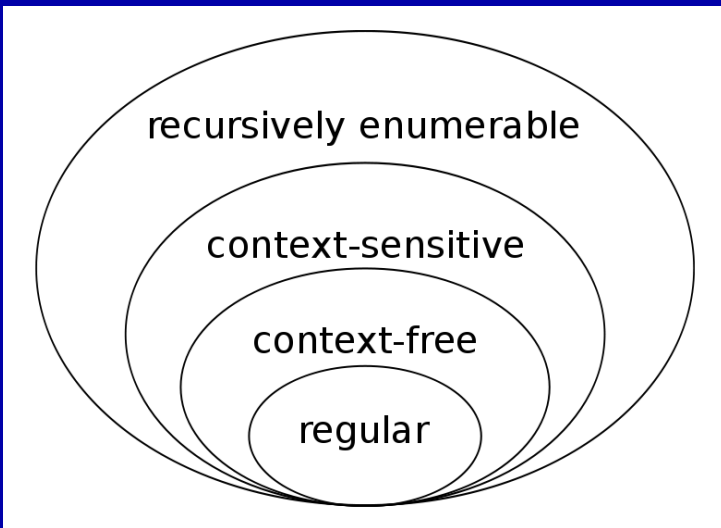
1Help 2Unwrap 3 4ASCII 5 6 7Search 8Viewer 9Print 10Quit

Know Your Basics

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

00000
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000F0
00100
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00120
00130
00140
00150
00160

- “Never bring a regular expression to a context-free grammar fight.”
– Meredith L. Patterson
 - If you build defense, this is vital
 - If you build offense, this is more relevant than you would think



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Know Your Basics

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
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- 000E0
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- 00100
- 00110
- 00120
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- 00150
- 00160
- If you ignore proven facts, you will keep looking for the philosopher's stone of hacking
 - "I have build this automated fuzzing framework that will use coverage testing to run every code path with my input!"
 - "Iterating through all possible inputs that match this regular expression will find me all possible bugs in this code!"
- Those are the only things that should limit your individuality
 - Unless, of course, you can prove them wrong ;)

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Be Yourself

And (optionally) get paid for it.

You And The Community

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ cultivate relations to others with
- 00020 respect for them
- 00030
- 00040
- 00050 ■ It's OK to loose the respect later if
- 00060 they don't deserve it
- 00070
- 00080 ■ Respect is a symmetric connection:
- 00090 priority and limits work both ways
- 000A0
- 000B0
- 000C0 ■ Most people share your ideals
- 000D0
- 000E0 ■ But they might have other needs,
- 000F0 motivations or interests
- 00100
- 00110
- 00120
- 00130
- 00140
- 00150
- 00160

Working in InfoSec

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Nmap: The Internet Considered Harmful - DARPA Inference Cheking Kludge Scanning

In this article, we disclose specially for Hakin9 magazine the inner working of the DARPA Inference Cheking Kludge Scanner, an extension of the world famous NMAP scanner. Even though we believe most readers of Hacking9 shall be familiar with classic Nmap use as a port scanner, using Nmap as a weaponized tool for remote backdooring is essentially not public.

Since this project is DARPA classified, we will unfortunately not be able to share the source code of this project. We will nonetheless share demos of the tool, and provide concrete evidence that pushing CPU microcode updates to the Windows 8 kernel after a kernel pool heap overflow is practical, hence achieving permanent full remote compromise of the scanned computer.

- 000F0 ■ You should not fall for charlatans
- 00100
- 00110 ■ My rule of thumb: The more often the
- 00120 person appears in shitty TV shows, the
- 00130 more likely that person is a charlatan.
- 00140
- 00150
- 00160

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Working in InfoSec

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ In every work environment, you find
- 00020 100 types of people:
- 00030
- 00040
 - 00050 ■ 00: asshole
 - 00060 ■ 01: asshole considered nice
 - 00070 ■ 10: nice considered asshole
 - 00080
 - 00090 ■ 11: nice
 - 000A0
 - 000B0
- 000C0 ■ That doesn't make InfoSec any
- 000D0 better or worse than other jobs
- 000E0
- 000F0
- 00100 ■ Also: If you find yourself in a
- 00110 hole, stop digging.
- 00120
- 00130
 - 00140 ■ If a job sucks, find a new one
 - 00150
 - 00160

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Working in InfoSec

Text View: K:\KEYNOTE.EXE Col 0 270,650 Bytes 0%

- 00000
- 00010 ■ A good company fosters your
- 00020 development as an individual to the
- 00030 same extend that you foster the
- 00040 development of the overall team
- 00050
- 00060
- 00070
- 00080
- 00090 ■ Figure out your motivation and find
- 000A0 a company that shares it
- 000B0
- 000C0
- 000D0 ■ If in doubt, start you own
- 000E0
- 000F0
- 00100
- 00110
- 00120
- 00130
- 00140
- 00150
- 00160

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Done.

Text View: K:\KEYNOTE.EXE

Col 0

270,650 Bytes

0%

00000 Thanks for listening
00010
00020
00030
00040
00050
00060

The Norton Commander

Do you want to quit the Norton Commander?

Yes

No

00070
00080
00090
000A0
000B0
000C0
000D0
000E0
000F0 Greetz and Shouts:

00100 Phenoelit, Phonoelit, Halvar Flake, HD Moore
00110
00120
00130
00140
00150
00160

1 Help

2 Unwrap 3

4 ASCII 5

6

7 Search

8 Viewer

9 Print

10 Quit