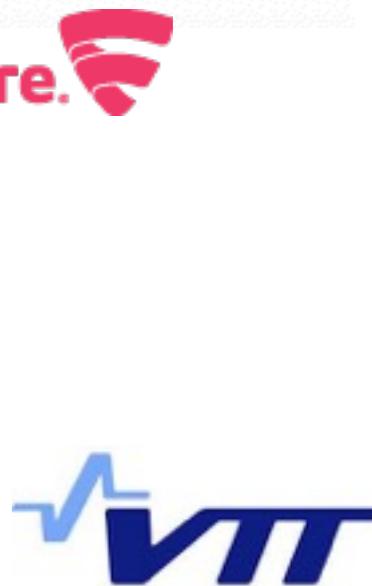


# KIITOS!





HUOLTOVARMUUSKESKUS  
FÖRSÖKRINGSBEREDSKAPS CENTRALEN  
NATIONAL EMERGENCY SUPPLY AGENCY



XENSENSE



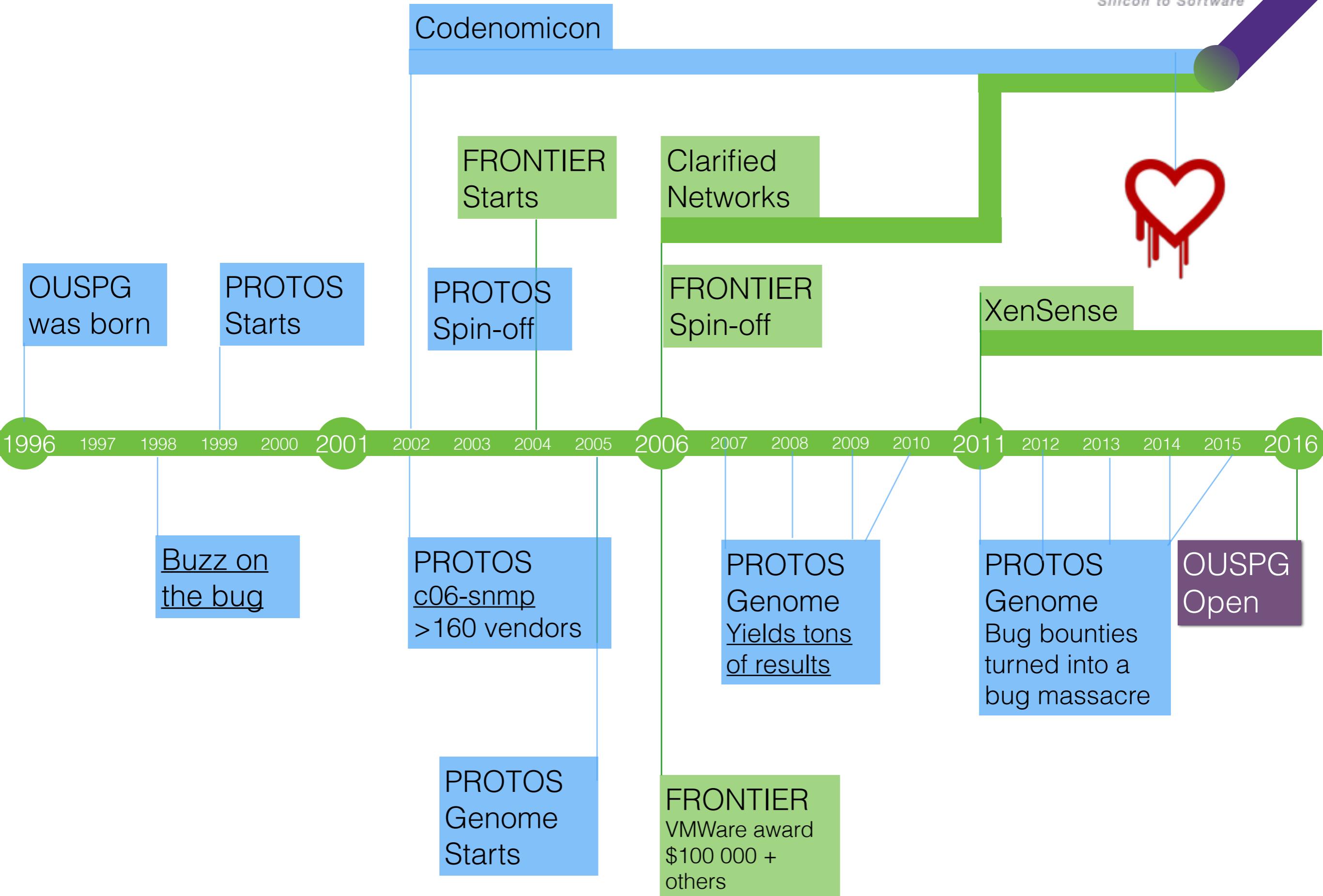
Software Engineering Institute

Carnegie Mellon University



CPNI®

Centre for the Protection  
of National Infrastructure



# 1996



Search

Home > Support > SunSolve >

[Printer-Friendly Page]

**WARNING:** Articles moved into the Archived collection were accurate at the "Last Update" date, but are not maintained from that date forward.

As such, Sun disclaims all implied or express warranties with respect to the information contained in such articles.

Document Audience: PUBLIC Archive

Document ID: 00137a

Title: Security Bulletin #00137a

Last Updated Date: **Wed Dec 11 00:00:00 MST 1996**

Bulletin Number: 00137a

Title: Security Bulletin #00137a

Sun thanks **Marko Laakso** (University of Oulu, Finland) for his assistance in this matter.

#### ADDENDUM

This is an amended version of Sun Microsystems Security Bulletin #00137, which discussed recently released security patches for Solaris 2.5 and 2.5.1. The changes correct two mistakes. No new information is provided.



**Sun support customers**  
more support information  
available after you sign in

» Login



The new Member Support Center for SunSpectrum contract holders

Apply for Early Access to Request Installation

- » Patches and Updates
- » Security Resources
- » Recent Sun Alerts

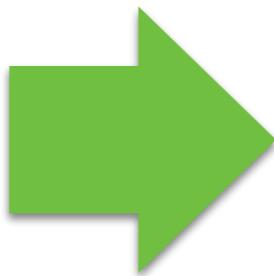
# Rough numbers

- 74 people worked for OUSPG
- 3 spin-offs
- worked with way over 100 vendors
- *Close to 200* theses produced or supervised
- *tens of millions* of browser users secured



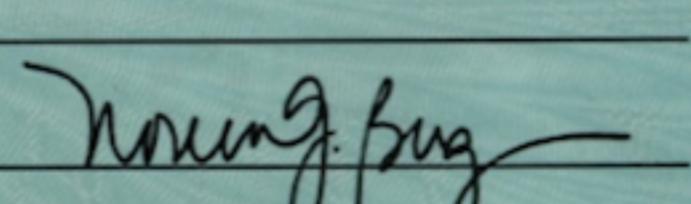
*Huippututkijat työssään*

# Careers



1998

# Bug Bounties Before They Were a Thing

 <b>NETSCAPE COMMUNICATIONS CORPORATION</b> (650) 254-1900 501 EAST MIDDLEFIELD ROAD MOUNTAIN VIEW, CA 94043	<b>BANK OF AMERICA</b> Bank of America Illinois Chicago, IL 60697	<b>No. 91797</b> <hr/> 70-2328 719						
<b>NETSCAPE</b>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">CHECK DATE</th> <th style="text-align: center; padding: 2px;">CHECK NUMBER</th> <th style="text-align: center; padding: 2px;">CHECK AMOUNT</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">20-AUG-98</td> <td style="text-align: center; padding: 2px;">91797</td> <td style="text-align: center; padding: 2px;">*****1,000.00</td> </tr> </tbody> </table>			CHECK DATE	CHECK NUMBER	CHECK AMOUNT	20-AUG-98	91797	*****1,000.00
CHECK DATE	CHECK NUMBER	CHECK AMOUNT						
20-AUG-98	91797	*****1,000.00						
<b>PAY</b>	One Thousand Dollars And 00 Cents*****							
AMOUNTS OVER \$25,000 REQUIRE TWO SIGNATURES								
<b>TO THE</b> <b>ORDER OF</b>	LAAKSO, MARKO University of Oulu Department of Electrical Eng. Computer Eng. Laboratory PL 444 Oulu, FI 90571 Finland							
								

1998

Date: Thu, 30 Jul 1998 16:36:27 +0300  
From: Marko Laakso <fenris@ee.oulu.fi>  
Content-Type: text  
Content-Length: 3648

----- Forwarded message -----

Date: Thu, 30 Jul 1998 08:36:34 -0400  
From: Josh Quittner <quittner@pathfinder.com>  
To: Ari Takanen <art@ee.oulu.fi>  
Subject: Re: Interview for TIME Magazine?

I'm sorry to hear that.

Why isn't OUSPG in a position to give interviews? It would be nice to find  
[off the record, just food for your thoughts]

To reiterate, we believe that responsibility for the customer  
warnings, publicity and fixes is at the Vendor's end. To include an  
unbiased view point independent and coordinated efforts to issue  
warnings are lead by FIRST like organizations. If vendors fail to do  
it properly then maybe we have a fundamental problem that deserves  
public's attention.

My belief is that we have a rather fundamental software quality  
problem at our hands. It might be a good idea for someone to direct  
this discussion to a more generic discussion before public grows tired  
of hearing about yet another bug.

1998

You moved away  
NEW Tivoli IT Director will  
[Click Here](#)



MAIN PAGE  
WORLD  
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WEATHER  
BUSINESS  
SPORTS  
SCI-TECH  
computing  
space  
ENTERTAINMENT  
TRAVEL  
HEALTH  
STYLE  
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news summary  
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## BUSINESS Technology

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**Microsoft Daily News** [Click here to get the latest news](#)  
7/29/98 Microsoft tests Xing, Digital disapproves allegations against

July 29, 1998

## Security Flaw Discove

By JOHN MARKOFF

**S**AN FRANCISCO -- A serious security flaw has been discovered in some of the most popular e-mail programs published by major software companies around the world: Microsoft's Outlook Express and Outlook 98 and Netscape's Web browser, Navigator, which is part of its Communicator suite of Internet programs.

So far, security tests have shown that the Microsoft e-mail programs used by millions of people around the world: Microsoft's Outlook Express and Outlook 98 and Netscape's Web browser, Navigator, which is part of its Communicator suite of Internet programs.

Tivoli  
manage your NT network.

## WIRED NEWS

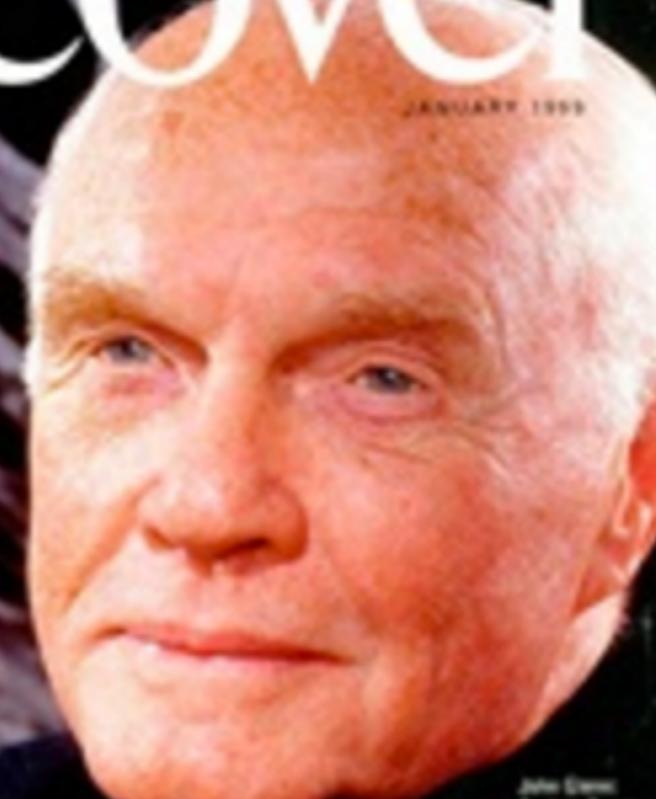
# SPECIAL ISSUE: The Year in Science

# Discover

THE WORLD OF SCIENCE

JANUARY 1999

CLONED MICE  
NOAH'S FLOOD?  
TAMOXIFEN  
ASTEROID MISS  
FEATHERED DINO  
ICE MAN RETURNS  
EYE-SCAN I.D.  
LAB-GROWN ORGANS



John Glenn  
Back in Space  
After 36 Years

# The Top Science Stories of 1998



The problem affects both Mac and Windows versions of Microsoft's Outlook Express 4.x and Outlook 98, but apparently not the Mac version of Netscape's e-mail software.

WIRED MAG HOTWIRED LIVEWIRED HOTBOT

Computers

ed a hole in Microsoft's e-mail programs that could allow malicious access to a computer system, causing havoc.

following the arrival of Microsoft's e-mail users, a Trojan horse application that causes destruction to data files. The Trojan horse depends on who writes the e-mail message.

"An e-mail attachment can damage a user's hard drive or crash the user's machine," says Steve Raskin, group product manager.

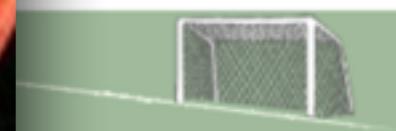
**It's Free**  
**WaveTop**  
[click here](#)



TECHNOLOGY  
*Today's Headlines*

Net TVs Speak Same Lingo

Microsoft Patches NT Hole



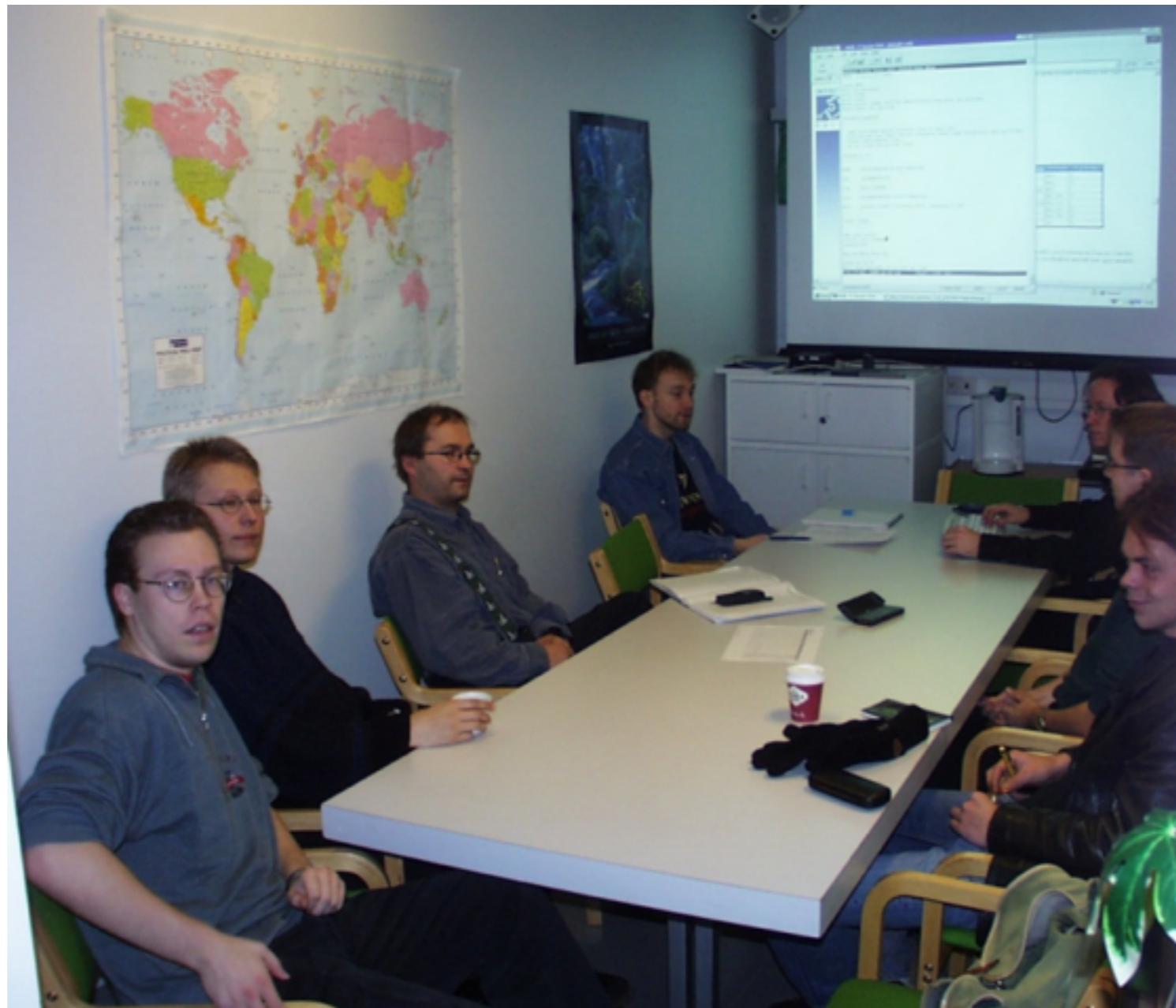
software

son@macweek.com)  
@macweek.com)

Communications Corp. are scrambling to fix their e-mail software that allows a Trojan horse

2002

# C06-SNMP (actually ASN.1)



C06-SNMP

Most people in the pic are not related to the story.

2002



Other Journal Sites

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- [Technology](#)
- [Markets](#)
- [Your Money](#)
- [Opinion](#)
- [At Leisure](#)

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## NEW MEDIA

FROM THE ARCHIVES: June 10, 2002

### Is Internet Infrastructure At Risk for a Hack Attack?

By RIVA RICHMOND  
DOW JONES NEWSWIRES

NEW YORK -- Computer-security experts are investigating whether poor programming around a key building-block computer language puts Internet infrastructure at risk for hacker attacks.

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Teletoiminta  Tietoturva  Sähköinen media  Radioliikenne  Internetin verkkotunnus

### Tietoturva: Tietoturvaloukkausten havainnointi ja ratkaisu (CERT)

- [Asiakastiedotteet](#)
- [Tietoliikenneturvallisuus \(COMSEC\)](#)
- [Sähköinen allekirjoitus ja varmennetoiminta](#)
- [Televiestinnän tietosuoja](#)
- [Sähköinen kaupankäynti](#)
- [Tietoturvaloukkausten havainnointi ja ratkaisu \(CERT\)](#)
  - [CERT-FI](#)
  - [Varoitukset](#)

#### CERT-FI varoitus 10/2002

13.2.2002

#### Haavoittuvuuksia SNMP-protokollassa

SNMP (The Simple Network Management Protocol)-protokolla on laajalti eri tietojärjestelmämääräistöissä käytössä oleva protokolla. Sitä käytetään verkkolaitteiden monitorointiin ja ylläpitoon. Protokollasta on löydetty useita haavoittuvuuksia. Ne liittyvät SNMP-versioon yksi (v1).

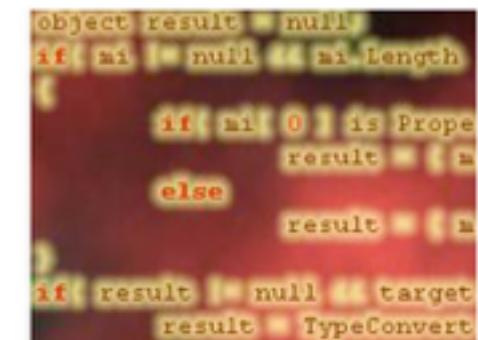
## tietoturva

» kaikki uutiset | Tietoturva

Howard Schmidt:

### Suomalainen tietoturvatutkimus herätti Valkoisen talon

2.5. 14:20 - Oulun yliopiston tutkimuslodyöt muuttivat dramaattisesti näkemystämme teknologiasta, julisti USA:n johtaviin tietoturva-asiantuntijoihin kuuluva Howard Schmidt Suomessa käydessään.



George W. Bushin hallituksen entinen tietoturvan euvonantaja Howard Schmidt puhui Oulun yliopistolla 28.4. pidetyssä Vulnerability Prevention and Software Security -seminaarissa.

Schmidtin mukaan Oulun yliopiston ja VTT:n Protos-projektissa tekemät tutkimuslodyöt saivat Valkoisen talon havahtumaan käytössämme olevan teknologian tietoturvan tukemiseksi.



2002

>160 vendors used the test tool

The screenshot shows a web browser window with the URL [www.cert.org/historical/advisories/CA-2002-03.cfm#vendors](http://www.cert.org/historical/advisories/CA-2002-03.cfm#vendors). The page content is as follows:

IntraCore and all other product lines. Please contact [support@asante.com](mailto:support@asante.com) for further information.

**Astracon, Inc.**

The Astracon Stinger NetConnect is safe against the vulnerability reported by VU#107186. The Stinger NetConnect processes SNMP responses only. Since the trap demon is never invoked, the Stinger NetConnect will never receive a trap; it is always safe.

The Stinger NetConnect doesn't accept SNMP requests, but can send SNMP version 1 or version 3 requests. By configuring the NetConnect to use only SNMP version 3, the vulnerabilities caused when using SNMP version 1 in the network will be avoided.

In order to ensure safety against the vulnerability reported by VU#854306 and VU#107186, the test cases at <http://www.ee.oulu.fi/research/ouspg/protos/testing/c06/snmpv1/> were executed, with no adverse effect on the NetConnect. The Stinger NetConnect passed all of the test cases.

**Avaya**

Avaya is addressing the vulnerabilities identified in this advisory. The latest information on the affect of this vulnerability on Avaya products can be found at: <http://support.avaya.com/security>

**AVET Information and Network Security**

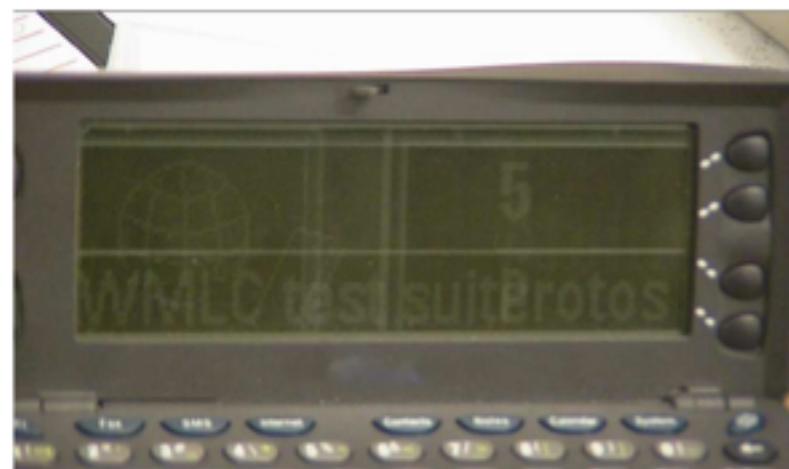
**Xerox Corporation**

Xerox is aware of this advisory. A response regarding all Xerox products that use SNMPv1 is available from our web site: [www.xerox.com/security](http://www.xerox.com/security).

2002

# Vulnerabilities went mobile

NONE OF THEM SURVIVED



♪ ♪ "You can't ♪ patch this"



2005

# PROTOS - a tough act to follow?

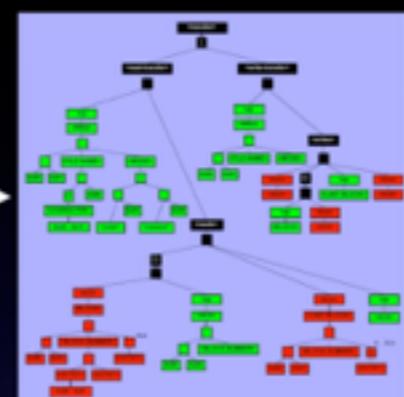
## PROTOS Classic / CODENOMICON:



Specification



Engineer



Model

→ Tests

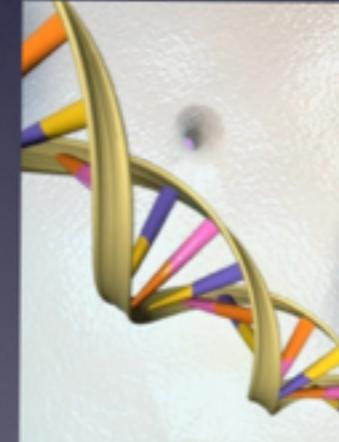
## PROTOS GENOME:



Samples



Magic



Model

→ Tests

2011

# Modern bounties



# Bounty Hunters - a different kind of popularisation



## [Chromium](#) > [Chromium Security](#) > **Security Hall of Fame**

The following bugs qualified for a Chromium Security Reward, or represent a win at our Pwnium competition. On behalf of our millions of users, we thank the named researchers for helping make Chromium safer.

This information is historical and isn't being updated. The [Chrome Security Reward](#) program hall of fame is centralized with other Google properties. You can create and view entries on the [Google Hall of Fame](#).

- \$60000 to Sergey Glazunov for [bug 117226](#)
- \$60000 to PinkiePie for [bug 117620](#)
- \$40000 to PinkiePie for [bug 181083](#) and others
- \$31336 to Ralf-Philipp Weinmann for [bug 227181](#) and others
- \$30000 to someone who wishes to remain anonymous
- \$30000 to someone who wishes to remain anonymous
- \$21500 to Andrey Labunets for [bug 252062](#) and others
- \$10000 to miaubiz for [bug 116661](#)
- \$10000 to Aki Helin from QUSPG for [bug 116662](#)
- \$10000 to Arthur Gerkis for [bug 116663](#)
- \$10000 to Sergey Glazunov for [bug 143439](#)
- \$10000 to miaubiz for [bug 157047](#)
- \$10000 to Atte Kettunen for [bug 157048](#)
- \$10000 to Christian Holler for [bug 157049](#)
- \$7331 to PinkiePie for [bug 162835](#)

We are doing something about that in:

# OUSPG Open

## Taking OUSPG out of the box

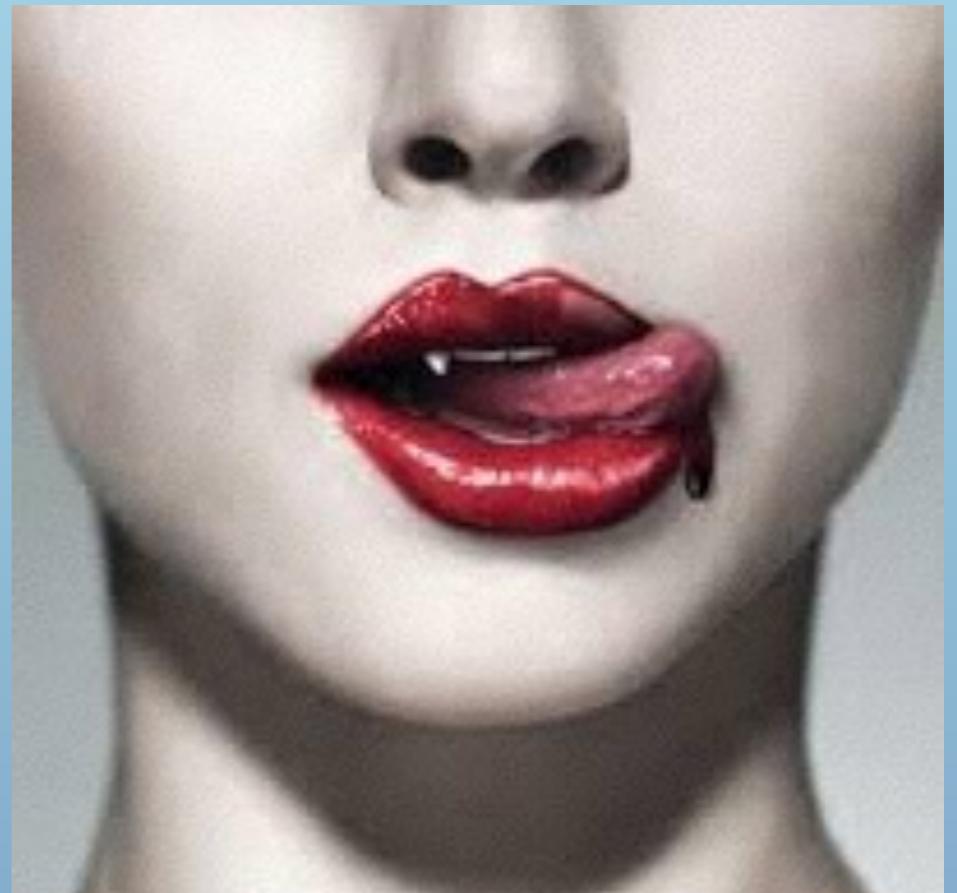
- Open Sessions
  - 15 so far,
  - 96 engagements,
  - 50+ persons, from
  - 23 organisations



# Fresh blood

## teams up for social enterprise / experiment

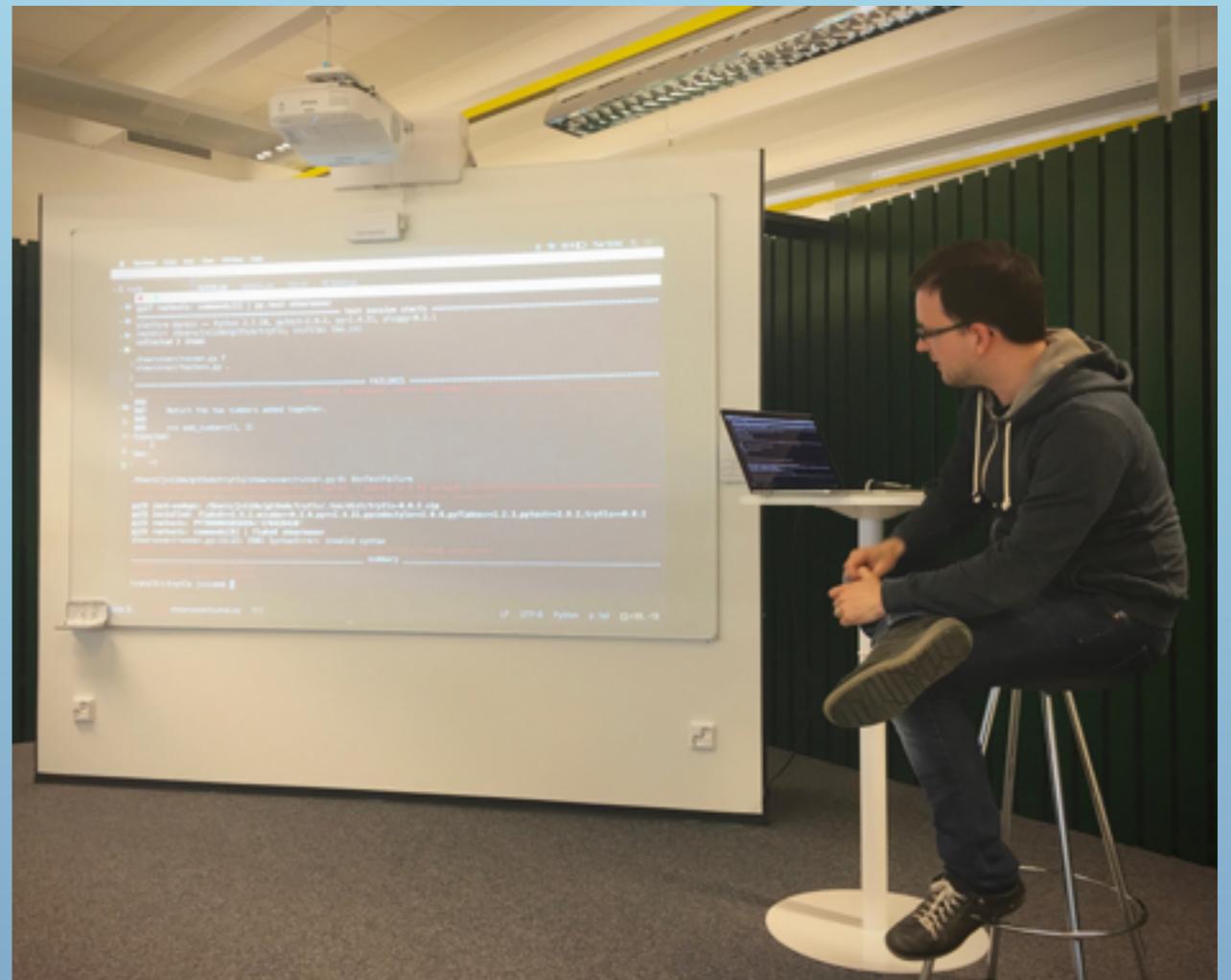
- 3 month sprints for 4(ish) topics
  - TryTLS
  - Libfuzzerification
  - Honeypots
  - URLHandlers
- A chance to pick new brains
- Fresh blood gets intro to the infosec



*Pic from True Blood Series*

# Indoctrination

*Indoctrination is the process of forcibly inculcating ideas, attitudes, cognitive strategies or a professional methodology (see doctrine) by coercion.[1]*



[1] <https://en.wikipedia.org/wiki/Indoctrination>

Slack

#general 19 members

Today

5417089 Convert many into a tasklet - Joachim Viide  
47d2826 Fix a flake8 error - Joachim Viide

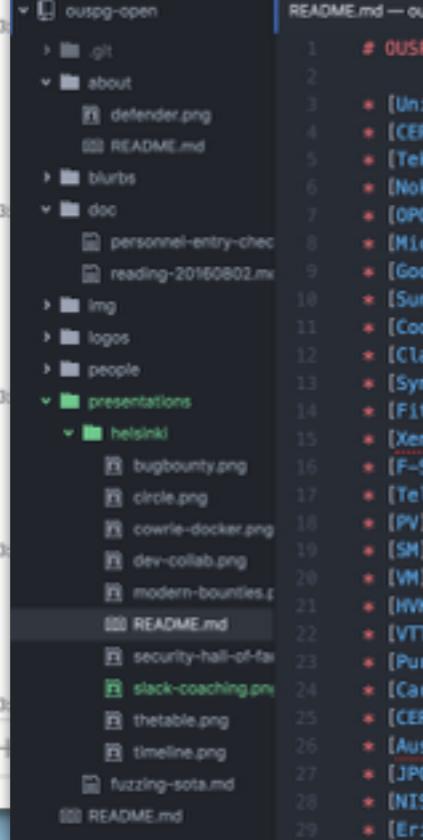
02:25 ospg-circleci-assembly-webapp BOT

Success: jvilde's build (#23; push in [ouspg/urlhandlers-assembly-app](#) introduction)

03:00 README.md — [ouspg-open/presentations/helsinki](#) — /Users/jani/git/ouspg/ouspg-open

03:00 README.md — [ouspg-open/presentation](#)

03:00 README.md — [ouspg-open](#)

03:00 

03:00 # OUSPG 20Y – Kiitos

03:00 \* [University of Oulu](<https://www.oulu.fi/yliopisto/>)

03:00 \* [CERT-FI/NCSC-FI](<https://www.viestintavirasto.fi/en/cybersecurity.html>)

03:00 \* [Tekes](<https://www.tekes.fi/>),

03:00 \* [Nokia](<https://www.nokia.com/>),

03:00 \* [OPOY](<https://www.dna.fi/>),

03:00 \* [Microsoft](<https://www.microsoft.com/>),

03:00 \* [Google](<https://www.google.com/>),

03:00 \* [Sun Microsystems](<https://www.oracle.com/sun/>),

03:00 \* [Codenomicon](<http://www.codenomicon.com>)

03:00 \* [CIA]([https://www.cia.gov](#))

03:00 \* [F5]([https://www.f5.com](#))

03:00 \* [Telia]([https://www.telia.com](#))

03:00 \* [PV]([https://www.pv.com](#))

03:00 \* [SM]([https://www.sm.com](#))

03:00 \* [VM]([https://www.vm.com](#))

03:00 \* [HVS]([https://www.hvs.com](#))

03:00 \* [VTT]([https://www.vtt.fi](#))

03:00 \* [Purvo]([https://www.purvo.com](#))

03:00 \* [Carsten Ankersen]([https://carstenankersen.com](#))

03:00 \* [CEFRON]([https://cefron.com](#))

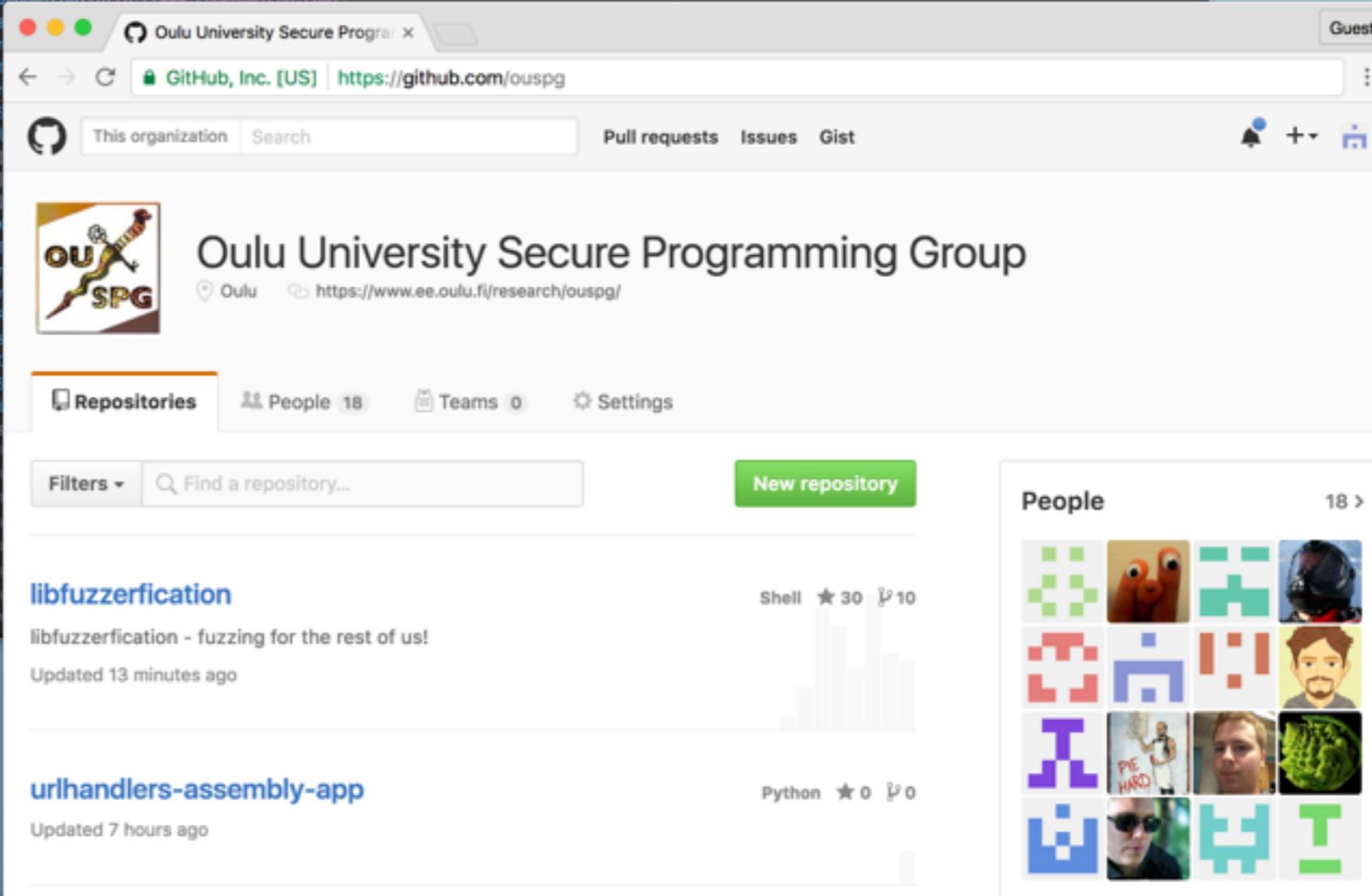
03:00 \* [AusCERT]([https://auscert.net.au](#))

03:00 \* [JPCERT/CC]([https://www.jpcert.or.jp](#))

03:00 \* [NIST]([https://www.nist.gov](#))

03:00 \* [Ernesto]([https://ernestocarrasco.com](#))

03:00 \* [Netwrix]([https://www.netwrix.com](#))

03:00 

Oulu University Secure Programming Group

Repositories People 18 Teams 0 Settings

New repository

Filters Find a repository...

libfuzzification

libfuzzification - fuzzing for the rest of us!

Updated 13 minutes ago

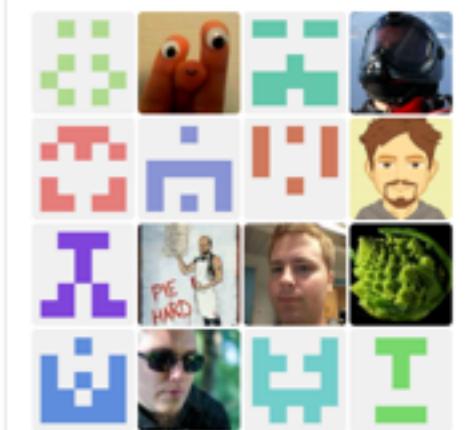
Shell ★ 30 ⚡ 10

urlhandlers-assembly-app

Updated 7 hours ago

Python ★ 0 ⚡ 0

People 18 >



	trytls	libfuzzerification	urlhandlers	honeypots	samplecloud
Do you use source control?	1	1	1	1	1
Can you make a build in one step?	1			1	
Do you make daily builds (or CI)?	1		1	1	
Do you have a bug database?	1	1	1	1	1
Do you fix bugs before writing new code?					
Do you have an up-to-date schedule?	1	1	1	1	1
Do you have a spec?	1	1	1	1	1
Do programmers have quiet working conditions?	1	1	1	1	1
Do you use the best tools money can buy?	1	1	1	1	1
Do you have testers?	1	1	1	1	1
Do new candidates write code during their interview?					
Do you do hallway usability testing?	1	1	1	1	1
Total score	10	8	9	10	6

# Dev Collaboration Flags



File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Print Refresh Undo Redo £ % .0 .00 123 Arial 10 **B** *I* S A

*fx*

	A	B	C	D	E	F	G
2	First time done \ Who	person1	person2	person3	person4	person5	
3	<b>Basics</b>						
4	Commit to repo	1	1	1	1	1	5
5	Comment commit	1	1			1	
6	Open issue		1	1	1	1	4
7	Comment issue		1	1	1	1	4
8	Close issue	1	1	1	1	1	5
9	Create / Edit Markdown-document	1	1	1	1	1	5
10	Use .gitignore	1	1			1	3
11	Use .dockernignore				1		1
12	Add a license to your project		1	1	1	1	4
13	<b>Pull Requests</b>						
14	Branch (or fork)	1	1	1	1	1	5
15	Create pull request	1	1	1	1	1	5
16	Comment someone's pull request		1			1	2
17	Review a pull request	1	1	1	1	1	5
18	Merge pull request	1	1	1	1	1	5
19	Solve a merge conflict		1		1	1	3
20	<b>Cross-referencing</b>						
21	Refer to ticket in a commit		1			1	2
22	Use @mention in github		1			1	2
23	<b>Advanced Tooling</b>						
24	Set up CI					1	1
25	Enable --force protection for master		1	1	1	1	4
26	Publish on dockerhub				1	1	2
27	Use dockerhub "CI" to auto-build from github				1	1	2
28	<b>Fly out of the nest</b>						
29	Submit a patch or pull request to third party a upstream					1	1
30	Have your upstream patch or pull request accepted					1	1
31	<b>Total</b>	9	17	11	15	22	71

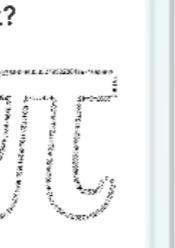


## Debates

My naive attempt to tackle an old problem in the modern setting

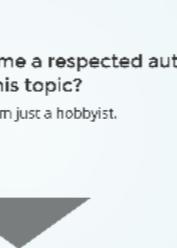
## Why this is important?

- We suck at being **rational**
  - We should increase the odds for **rational decisions**
- One of the few things we can manage is **how we use our time**
- It is sad to watch smart people trying to communicate their point and fail



## So how did I become a respected author on this topic?

- I didn't. I'm just a hobbyist.



## How to start a debate?

- Somebody comes up with an idea
- Works with it (invests to it, becomes familiar with it)
- And then somebody questions it... todaa.

On, I just described a mini-version of the [Sunk cost fallacy](#)

## Questioning is, however, important

- But pick your battles - it takes time \* participants
- If used too much, may block innovation?
- But still a necessity for **rational(ish) decisions**
- (we suck at being rational)

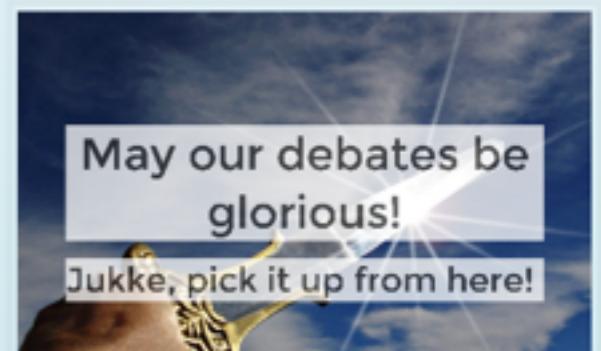
## "No ought from an is"

- E.g. The Hume's guillotine
- Of course it is good to know how the rest of the world operates
- This, however, should not be the key argument
- We don't want to be the [Angry Monkeys](#)

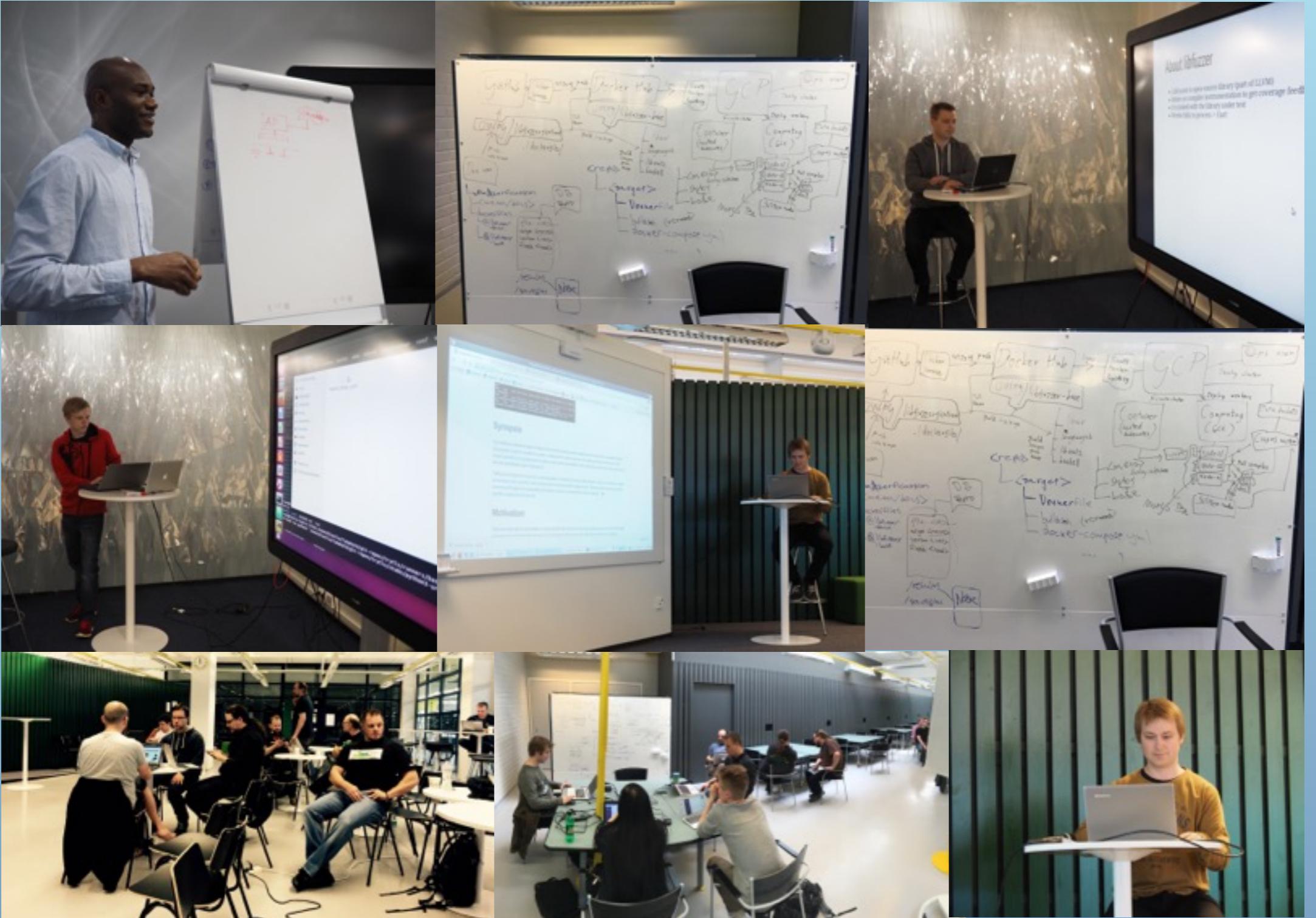
**We suck at being rational**

- Our brains are specialised in coming up with an **opinion first** and having an **explanation** for it **later**.
- Our brain is **very good** at deceiving us in other fronts
- You think you see colours equally around you?
- Full vision? No spots?
- Magic tricks, mentalists, the scientific method - quite a lot of things/professions work with or around our fallacies.

**We suck at communicating - so bad that there was a professor to study it**



# Videos



# What we have learned

*“Companies tend to be time-capsules of the time they were incorporated.”*  
-Marko Laakso

- OUSPG Open looks like an excellent platform for refresh
- Insanely repo-centric workflows - can't live without them anymore
- Operating Publicly does not hurt either
- Magical 3 months (more on this later)

Some things do not seem to change

# Tooling vs Reporting

```
-----  
bash-curl/results.txt: FAIL incomplete chain of trust [reject incomplete-chain.badssl.com:443]  
bash-opensslSClient/results.txt: FAIL wrong hostname in certificate [reject wrong.host.badssl.com:443]  
bash-opensslSClient/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
bash-opensslSClient/results.txt: FAIL invalid localhost certificate [reject localhost:55087]  
bash-opensslSClient/results.txt: FAIL use only the given CA bundle, not system's [reject sha256.badssl.com:443]  
haskell-http-client-tls/results.txt: FAIL wrong hostname in certificate [reject wrong.host.badssl.com:443]  
haskell-http-client-tls/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
haskell-wreq/results.txt: FAIL wrong hostname in certificate [reject wrong.host.badssl.com:443]  
haskell-wreq/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
lua5.1-luasec/results.txt: FAIL invalid localhost certificate [reject localhost:34955]  
php-file-get-contents/results.txt: FAIL support for TLS server name indication (SNI) [accept badssl.com:443]  
php-file-get-contents/results.txt: FAIL SHA-256 signature [accept sha256.badssl.com:443]  
python-idiokit/results.txt: FAIL support for TLS server name indication (SNI) [accept badssl.com:443]  
python-idiokit/results.txt: FAIL SHA-256 signature [accept sha256.badssl.com:443]  
python-idiokit/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
python-requests/results.txt: FAIL incomplete chain of trust [reject incomplete-chain.badssl.com:443]  
python-requests/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
python-requests/results.txt: FAIL use only the given CA bundle, not system's [reject sha256.badssl.com:443]  
python-urllib2/results.txt: FAIL incomplete chain of trust [reject incomplete-chain.badssl.com:443]  
python-urllib2/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
python-urllib2/results.txt: FAIL use only the given CA bundle, not system's [reject sha256.badssl.com:443]  
python-urllib3/results.txt: FAIL incomplete chain of trust [reject incomplete-chain.badssl.com:443]  
python-urllib3/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
python-urllib3/results.txt: FAIL use only the given CA bundle, not system's [reject sha256.badssl.com:443]  
python3-urllib/results.txt: FAIL incomplete chain of trust [reject incomplete-chain.badssl.com:443]  
python3-urllib/results.txt: FAIL protect against the Logjam attack [reject www.ssllabs.com:10445]  
python3-urllib/results.txt: FAIL use only the given CA bundle, not system's [reject sha256.badssl.com:443]
```

← → ⌂ GitHub, Inc. [US] | <https://github.com/ouspg/trytls/blob/master/cases/osx-10.11.5.md> ⋮

Code Issues 9 Pull requests 5 Wiki Pulse Graphs Settings

Branch: master trytls / cases / osx-10.11.5.md Find file Copy path

 aleksiklasila ACCEPT/REJECT instead of VERIFY SUCCESS/FAILURE b93c7cb 7 days ago

2 contributors  

96 lines (71 sloc) | 3.36 KB Raw Blame History   

# OS X OpenSSL verification surprises

When using native python shipped with OS X, the system default bundle will be trusted even if instructed otherwise. This is troubling, as some organizations do not want to trust the default bundles. Also, lately, the reputation of some CAs have been [brought into question](#).

## Not a new issue

This issue has been [reported](#) already 2014-03-03 by [Hynek Schlawack](#). [CVE-2014-2234](#) describes the vulnerability exists on *A certain Apple patch for OpenSSL in Apple OS X 10.9.2*. However, we have reproduced it in OS X 10.11.5 (15F34) 2016-06-12. The same behavior was observed with other python libraries (e.g. [urllib3](#), and [requests](#)) - as long as the python shipped with OS X was used.

# http-client-tls vulnerable to Logjam? #215

! Open

oherrala opened this issue 18 days ago · 0 comments



oherrala commented 18 days ago



[ssllabs.com](#) has test for [Logjam](#) in their [client tests](#). This is probably issue in Haskell's [tls](#) library instead of [http-client-tls](#). Ping @vincenthz .

```
Prelude> import Network.HTTP.Client
Prelude> import Network.HTTP.Client.TLS
Prelude> manager <- newManager tlsManagerSettings
Prelude> request <- parseRequest "https://www.ssllabs.com:10445/"
Prelude> response <- httpLbs request manager
Prelude> print response
Response {responseStatus = Status {statusCode = 200, statusMessage = "OK"}, responseVersion
```

I expect this simple test to throw exception or fail otherwise instead of successful connection.

Chrome, Firefox and Safari don't allow connection to this test host.

This was found with TryTLS test tool: <https://github.com/ouspg/trytls>

# I recently tried to analyze a debate

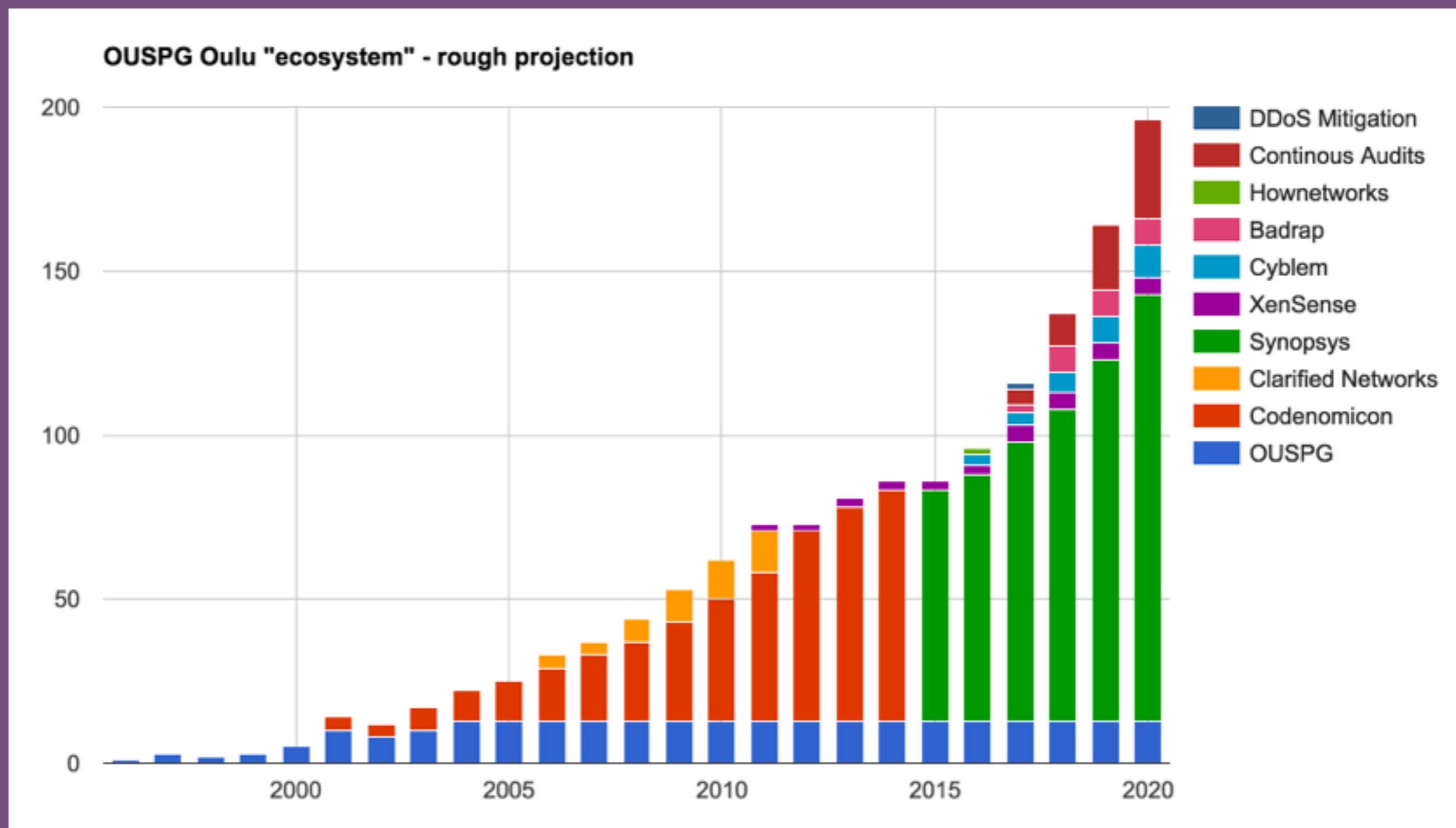


## FAILED

- I kept losing track even though I had the log and took my time
- Several threads for seemingly same discussion
- Temporal distortions (*Déjà-vu*)
- Arguments were orbiting an unidentifiable problem
- Some key arguments were seemingly ignored. I got curious - why?

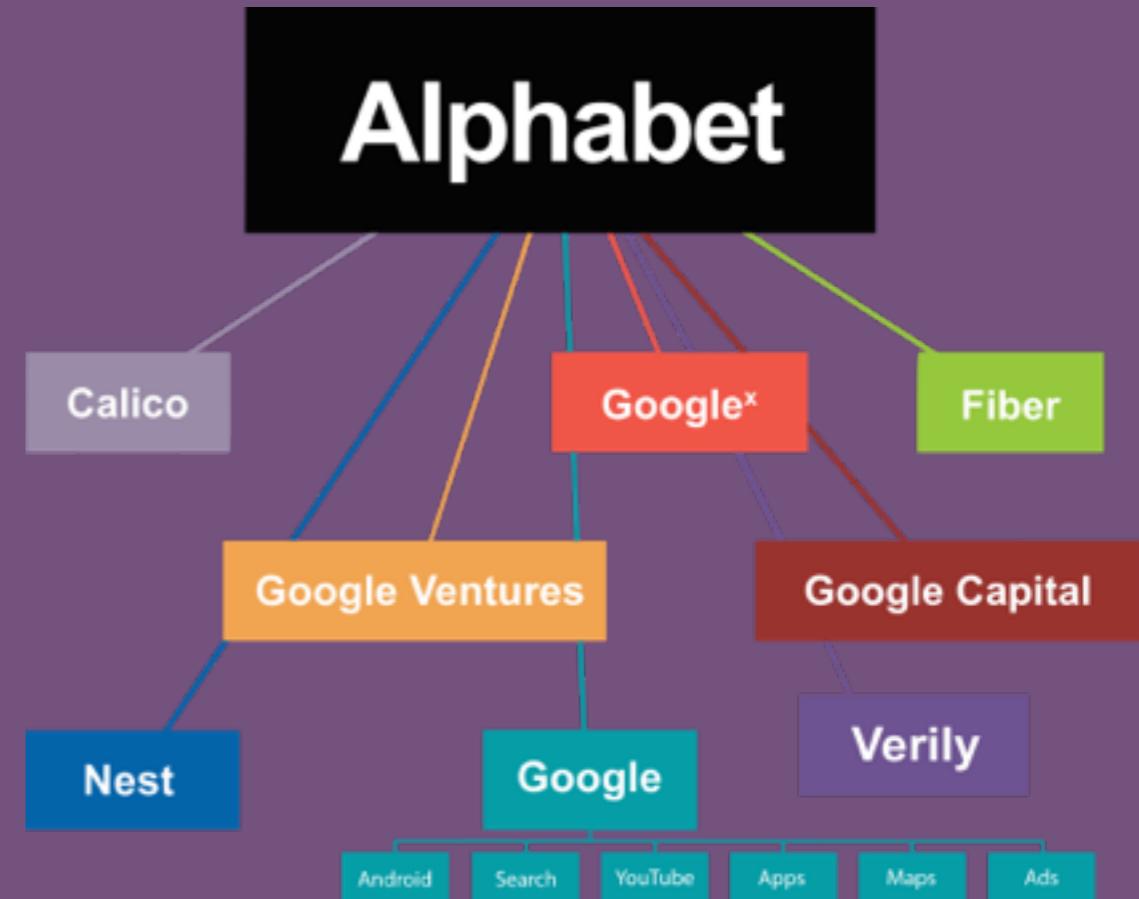
Future - Oulu?  
Infosec? Cyber?

# Oulu - We have a problem



Also, itching to do all the cool  
things that we could have  
done but didn't  
(focus / lack of people)

Somebody figured  
out how to pull it  
off





# Ääkköset

- Demonstrate that markets exist for doing the right thing (™)
- Providing a fair shot to disrupt the status quo
- For smart people with:
  - huge potential, but ambitions have been gapped by <whatever>
  - who want to try out an idea and are ready to move to another topic if it fails
- An instrument for investing to interesting technology-related business ideas

# Fly or Recycle

