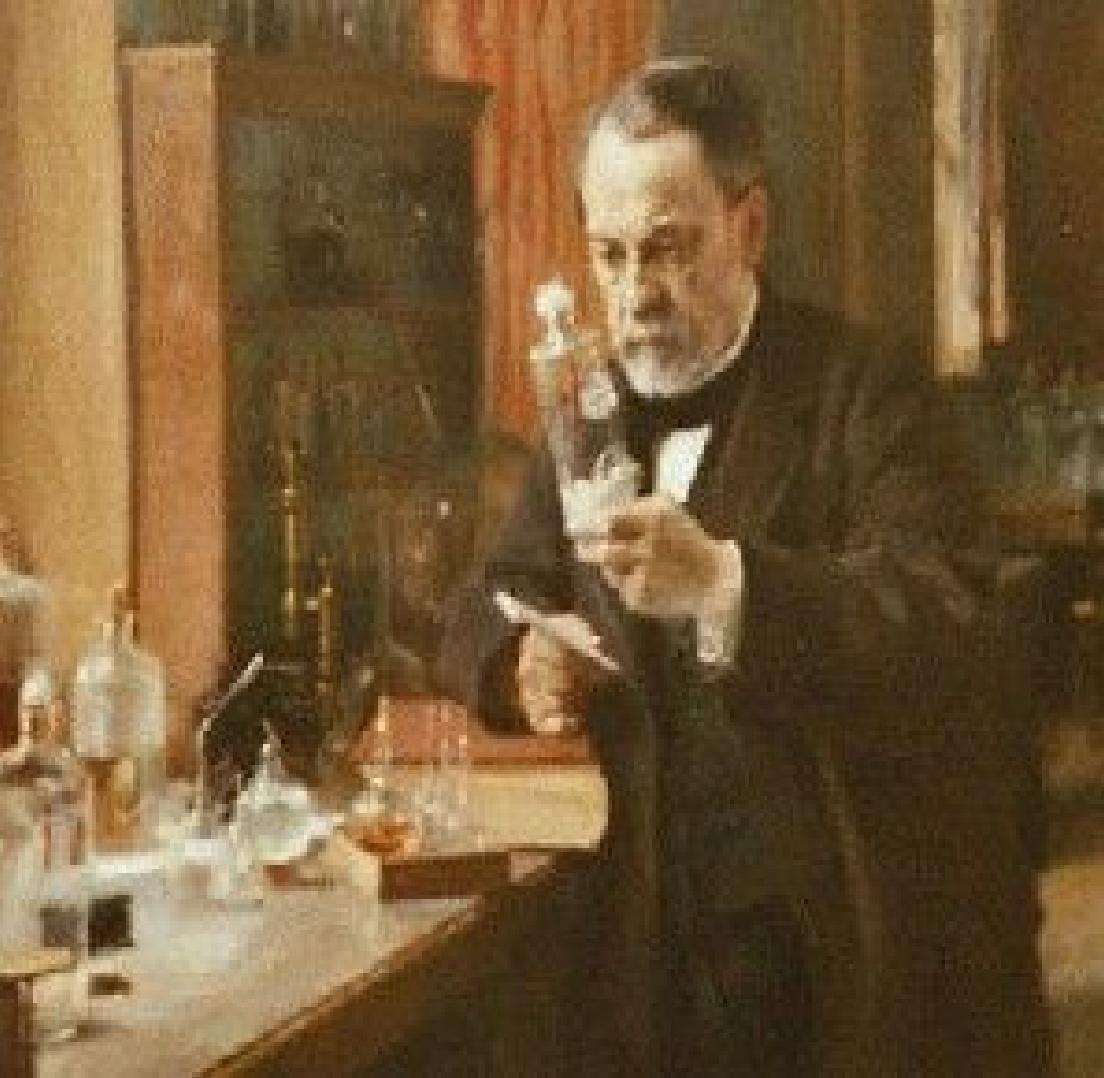


# 30(ish) Days of Security

With Grace and Catherine





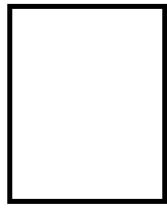




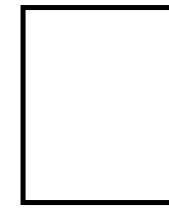


High Quality

bugs



Catherine



Grace

# HACKING'



“If you want to learn about something, the best way is to give a talk”

- Kanye West

# #30DAYSOFSECURITYTESTING

THE NEXT BIG CHALLENGE. A COMMUNITY OF AWESOME TESTERS. LET'S DO THIS.

BY MELISSA EADEN, CLAIRE RECKLESS AND DAN BILLING



<input type="checkbox"/> 1 READ A SECURITY BLOG	<input type="checkbox"/> 17 RESEARCH A RECENT HACK/SECURITY BREACH
<input type="checkbox"/> 2 SELECT AND READ A BOOK RELATED TO SECURITY TESTING	<input type="checkbox"/> 18 LEARN ABOUT SECURITY HEADERS
<input type="checkbox"/> 3 USE A SECURITY TOOL - EXAMPLES: ZAP OR BURPSUITE	<input type="checkbox"/> 19 RESEARCH SCRIPT KIDDIES AND/OR PACKET MONKEYS
<input type="checkbox"/> 4 LEARN ANYTHING ABOUT VULNERABILITY SCANNING	<input type="checkbox"/> 20 READ ABOUT DOS/DDOS ATTACKS. SHARE EXAMPLES/STORIES VIA SOCIAL MEDIA
<input type="checkbox"/> 5 LEARN ABOUT THREAT MODELLING (I.E. LIKE THE STRIDE MODEL)	<input type="checkbox"/> 21 READ ABOUT NETWORK VULNERABILITY AND APPLY IT TO YOUR TECH STACK
<input type="checkbox"/> 6 EXPLORE THESE SITES: GOOGLE GRUYERE; HACKYOURSELF FIRST; TICKET MAGPIE; THE BUDGET STORE	<input type="checkbox"/> 22 READ ABOUT SYSTEM SOFTWARE SECURITY AND APPLY IT TO YOUR TECH STACK
<input type="checkbox"/> 7 LEARN ONE OR MORE THINGS ABOUT PENETRATION TESTING	<input type="checkbox"/> 23 WHAT ARE THE TOP 10 SECURITY THREATS OF 2016?
<input type="checkbox"/> 8 USE A PROXY TOOL TO OBSERVE WEB TRAFFIC IN A WEB OR MOBILE APPLICATION	<input type="checkbox"/> 24 USE A SUGGESTION FROM THE OWASP WEB APPLICATION SECURITY CHECKLIST
<input type="checkbox"/> 9 DISCOVER THE PROCESS AND PROCEDURES AROUND SECURITY AUDITING	<input type="checkbox"/> 25 FIND AND USE A MOBILE SECURITY TOOL
<input type="checkbox"/> 10 READ AND LEARN ABOUT ETHICAL HACKING	<input type="checkbox"/> 26 COMPARE AND CONTRAST, ON SOCIAL MEDIA, WEB AND MOBILE SECURITY TESTING
<input type="checkbox"/> 11 TRY TO FIGURE OUT THE POSTURE ASSESSMENT FOR AN APPLICATION	<input type="checkbox"/> 27 HOW COULD BYOA (BRING YOUR OWN APPLICATION) PLAY A PART IN SECURITY?
<input type="checkbox"/> 12 READ ABOUT SECURITY TESTING AND DISCUSS WHERE IT BEST FITS IN AN SDLC	<input type="checkbox"/> 28 SHARE SECURITY TESTING IDEAS FOR SPECIFIC DOMAINS
<input type="checkbox"/> 13 PERFORM A SECURITY ANALYSIS FOR REQUIREMENTS IN A STORY	<input type="checkbox"/> 29 RESEARCH SECURITY REGULATIONS REGARDING A SPECIFIC DOMAIN
<input type="checkbox"/> 14 DEVELOP A TEST PLAN INCLUDING SECURITY TESTS	<input type="checkbox"/> 30 DISCOVER THE DIFFERENCE BETWEEN WHITE, GREY, AND BLACK HAT HACKING
<input type="checkbox"/> 15 WRITE AND SHARE IDEAS FOR SECURITY TESTING VIA TWITTER OR A BLOG	<input type="checkbox"/> 31 BONUS: TAKE PART IN A BUG BOUNTY
<input type="checkbox"/> 16 RESEARCH HOW TO BUILD A TIGER BOX	



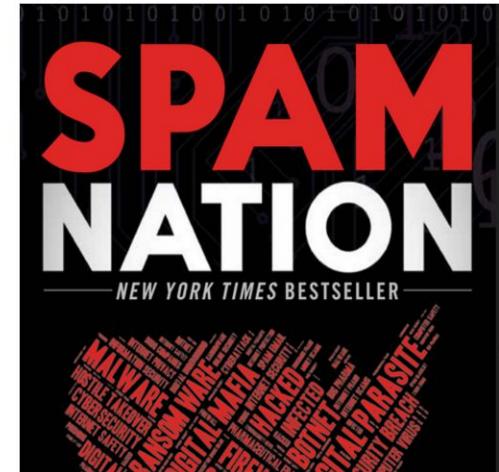
## 26 More on Bluetooth Ingenico Overlay Skimmers

FEB 17

This blog has featured **several stories** about “overlay” card and PIN skimmers made to be placed atop Ingenico-brand card readers at store self-checkout lanes. I’m revisiting the topic again because a security technician at a U.S.-based retailer recently shared a few photos of several of these devices pulled from compromised card terminals, and the images and his story offer a fair bit more detail than in previous articles.



## My New Book!



# #30 DAYS OF SECURITY TESTING

THE NEXT BIG CHALLENGE. A COMMUNITY OF AWESOME TESTERS. LET'S DO THIS.  
BY MELISSA EADEN, CLAIRE RECKLESS AND DAN BILLING



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2 SELECT AND READ A BOOK RELATED  
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3 USE A SECURITY TOOL - EXAMPLES: ZAP  
OR BURPSUITE



4 LEARN ANYTHING ABOUT VULNERABILITY  
SCANNING



17 RESEARCH A RECENT HACK/SECURITY  
BREACH



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19 RESEARCH SCRIPT KIDDIES AND/OR  
PACKET MONKEYS



20 READ ABOUT DOS/DDOS ATTACKS. SHARE  
EXAMPLES/STORIES VIA SOCIAL MEDIA



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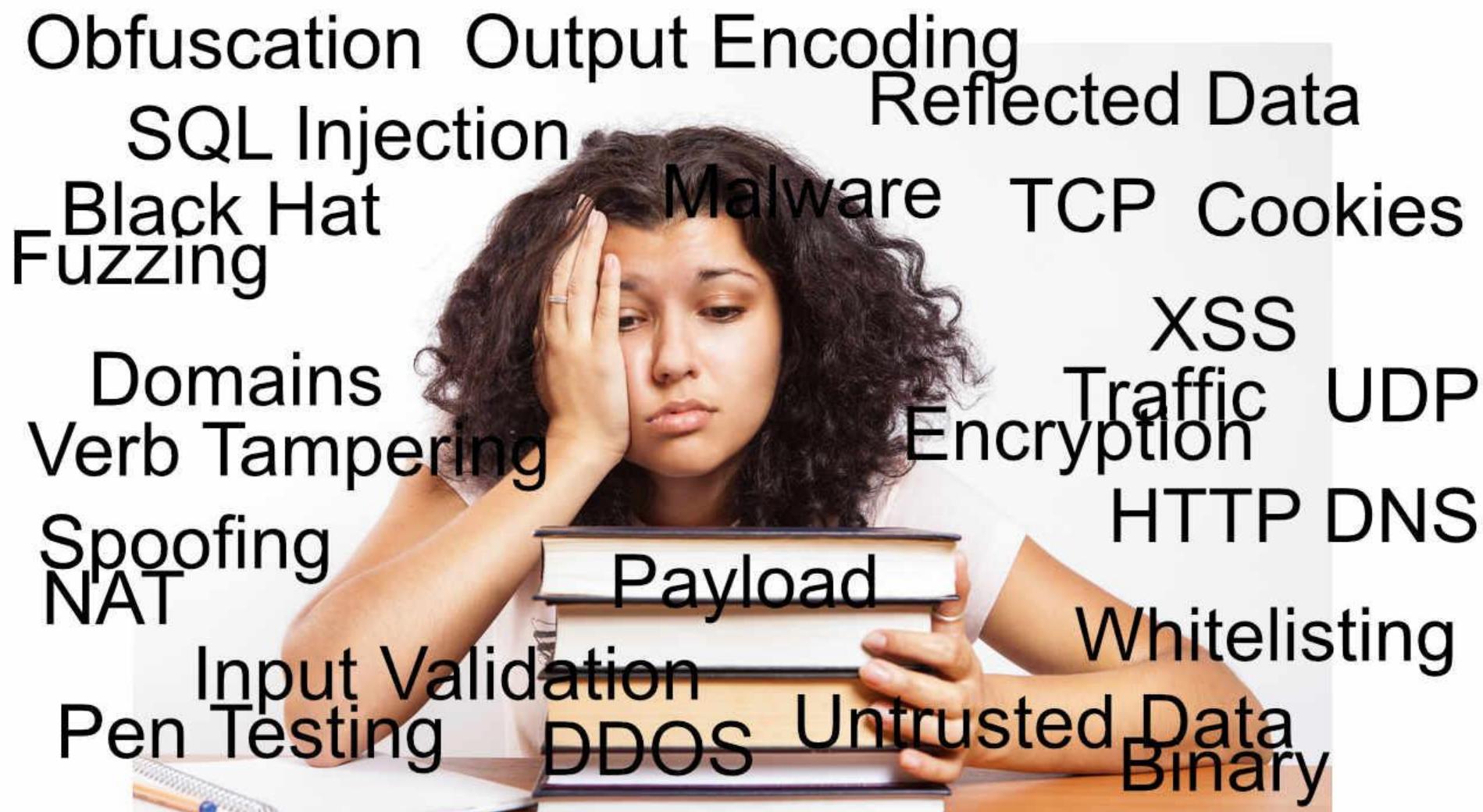
# Hack Yourself First: How to go on the Cyber-Offense

★★★★★ By [Troy Hunt](#)

"Hack Yourself First" is all about developers building up cyber-offense skills and proactively seeking out security vulnerabilities in their own websites before an attacker does.

▶ Start FREE course

Introduction	25m 58s
Transport Layer Protection	1h 8m
Introduction	1m 31s
The three objectives of transport layer protection	3m 0s
Understanding a man in the middle attack	3m 53s
Protecting sensitive data in transit	6m 24s
The risk of sending cookies over insecure connections	12m 57s
How loading login forms over HTTP is risky	19m 29s
Exploiting mixed-mode content	10m 39s
The HSTS header	7m 11s



Obfuscation Output Encoding

Reflected Data

SQL Injection

Malware TCP Cookies

Black Hat  
Fuzzing

XSS

Domains  
Verb Tampering

Traffic UDP  
Encryption

Spoofing  
NAT

HTTP DNS

Input Validation  
Pen Testing

Whitelisting  
Data Binary

Payload

DDOS

Untrusted

# End of Project

30 days review

# #30DAYSOFSECURITYTESTING

THE NEXT BIG CHALLENGE. A COMMUNITY OF AWESOME TESTERS. LET'S DO THIS.

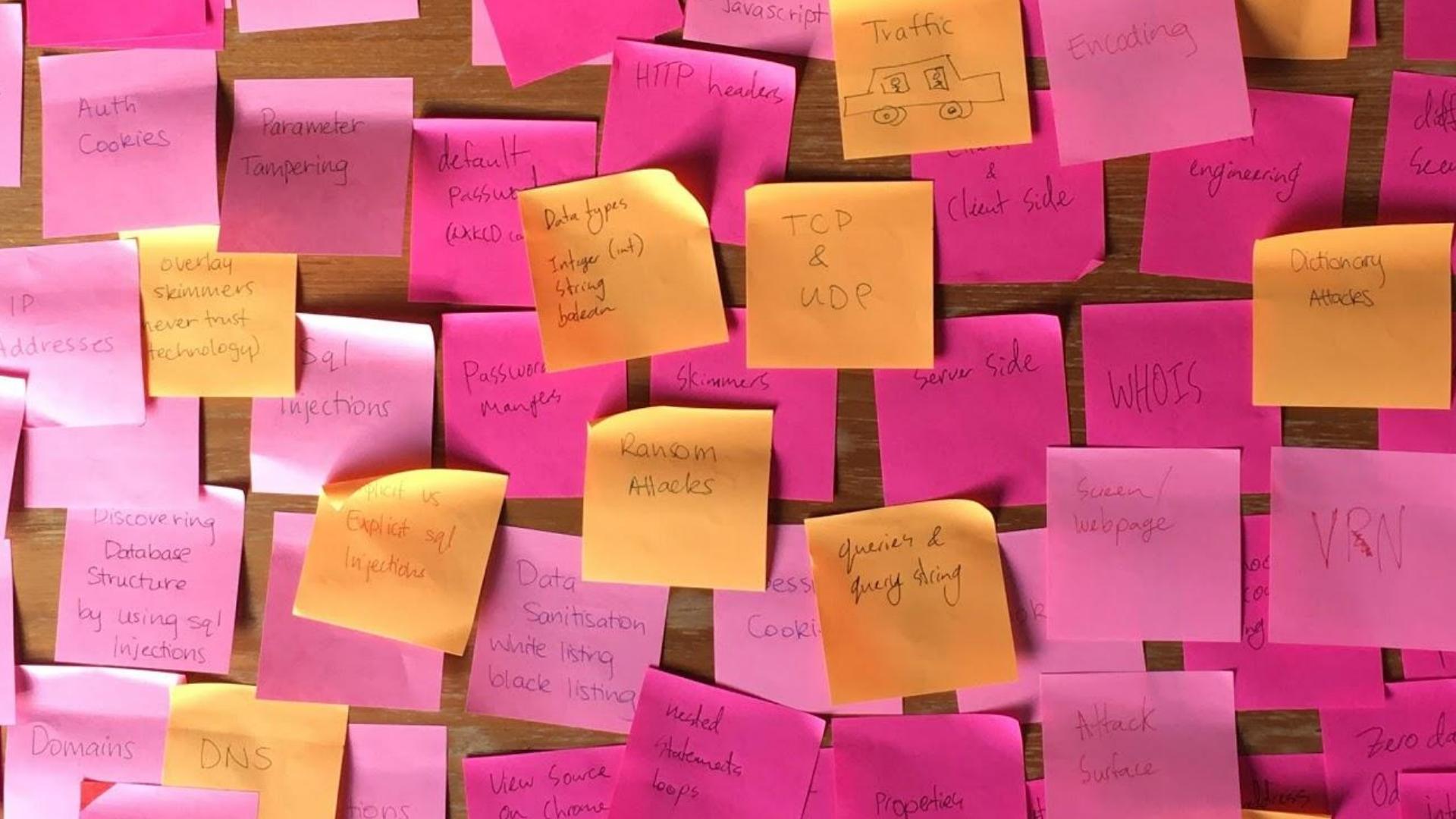
BY MELISSA EADEN, CLAIRE RECKLESS AND DAN BILLING



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Stop





# Daily Review - Grace

How inspired do you feel to keep learning about security beyond this project?

This is a daily temperature check. How much are you loving security after today's session? Do you feel inspired to keep learning? Did it get you down?

1    2    3    4    5    6    7

yeah nah...                            YEAH!!1!

## What did you learn today?

Summarise what you learned

Your answer

## Feelings

A linear scale isn't always the best for capturing feelings, you can talk more about it here! Did you learn anything particularly cool? Did you find something challenging that knocked your confidence a bit?

Your answer

## Paranoia

1    2    3    4    5    6    7

No worries,  
she'll be right

Ev~~ery~~thi~~ng~~  
is b~~roke~~n!

No one is  
, S~~A~~fe

SUBMIT

## How inspired do you feel to keep learning about security beyond this project?

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2

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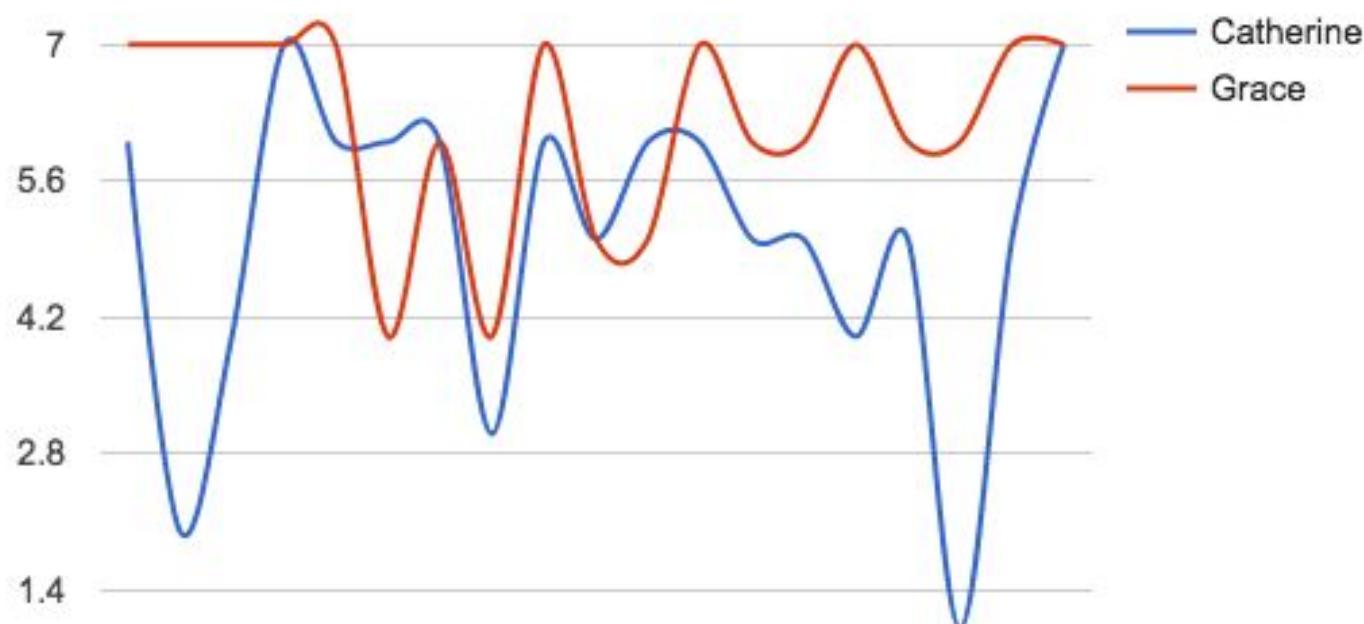
6

7

yeah nah...

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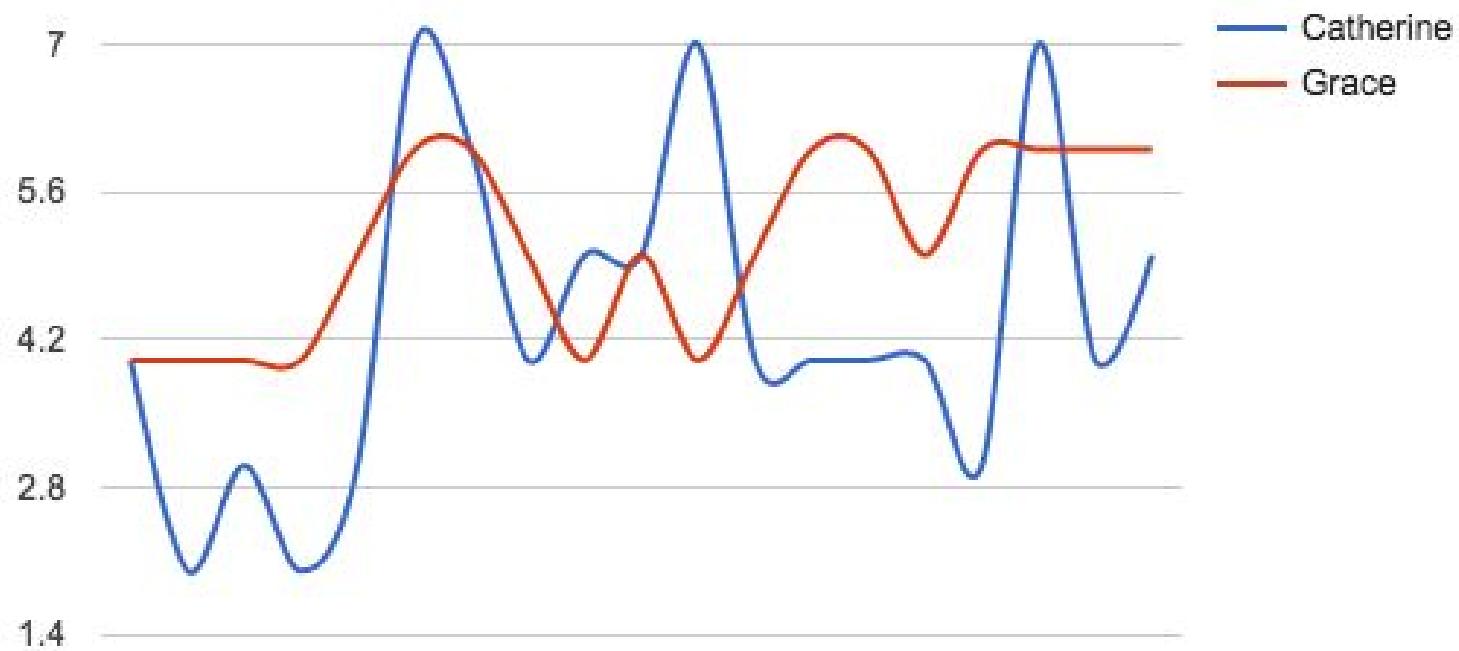
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## Paranoia



## Paranoia

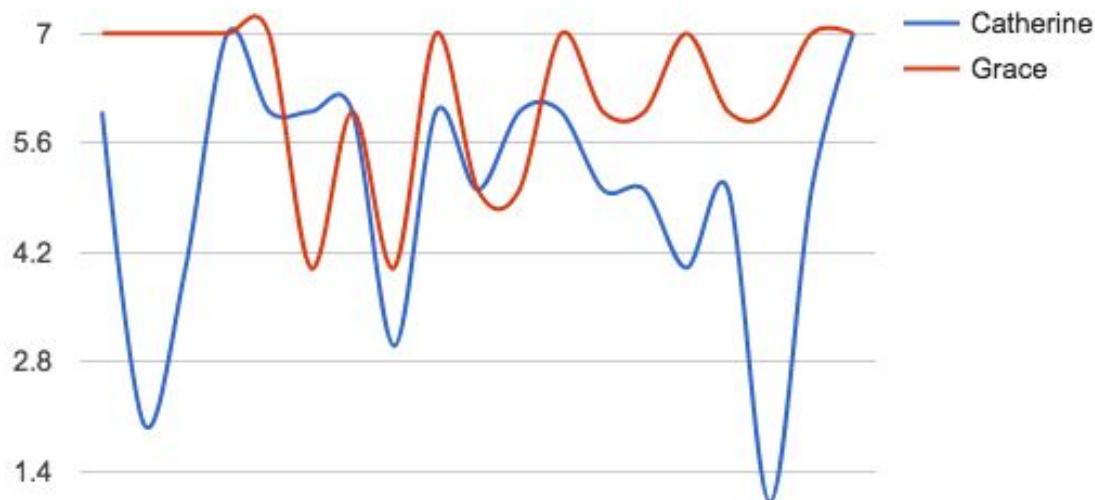


# Advice for Mentees

It's okay to feel embarrassed

# Expect dips in interest, it's normal

How inspired do you feel to keep learning about security beyond this project?



Seek real life success stories

Communicating with mentor about things  
that are too complicated

Don't be put off by the haters

# Advice for Mentors

Set expectations  
(#1 reason why people get mad)

Be flexible, allow for tangents and to  
pursue curiosity

If you don't know the answer to a question, or you're a little fuzzy, then look it up together

Don't assume anything about what your  
mentee knows or has learned

Don't jump in to save the day

Celebrate learnings!

Think about the cultural context of your  
mentee

# tl;dr:

- ✌️ 📋 30 Days of Security Testing
- 👉 Hack Yourself First by Troy Hunt
- 👍 Interviews
- 👉 News articles

❖ THANK YOU ❖

Catherine.McIlvride@assurity.co.nz  
hello@gracenolan.me

@GracieNoLag

Thank you to:

★ Pipes ★ Lily ★ Erica ★ @nzkarit ★ Kirk / Kim / OWASP ★ Assurity ★ Enable ★