



Foreword by
KEVIN MITNICK

TRANSFORMATIONAL
**SECURITY
AWARENESS**

What Neuroscientists, Storytellers,
and Marketers Can Teach Us About
Driving Secure Behaviors

PERRY CARPENTER

WILEY

Transformational Security Awareness

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Storytellers, and
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Us About Driving
Secure Behaviors

Perry Carpenter

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Transformational Security Awareness: What Neuroscientists, Storytellers, and Marketers Can Teach Us About Driving Secure Behaviors

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*For Siobhan, Sage, and Lily: the best reasons imaginable
to help build a more secure planet. Oh - and thanks for putting-up with
all the puns . . .*

About the Author

Perry Carpenter, C|CISO, MSIA currently serves as Chief Evangelist and Strategy Officer for KnowBe4, the world's most popular security awareness and simulated phishing platform.

Perry has been a recognized thought leader on security awareness and the human factors of security for well-over a decade. His broad background makes him uniquely positioned to understand nuances of awareness strategy that can be elusive. Perry's security awareness-related experiences spans multiple pivotal roles: from being a general employee receiving awareness training; to being an awareness program manager running complex global programs; to being the primary market analyst advising security leaders about awareness trends, success practices, and vendor platforms; to now helping lead the efforts of the world's largest and most successful security awareness and simulated phishing platform. Perry draws from this experience, along with cutting-edge research in the fields of marketing, communication, behavior science, and organizational culture management to inform his perspectives and advice for creating awareness programs that are transformational.

Before joining KnowBe4, Perry led security awareness, security culture management, and anti-phishing behavior management research at Gartner Research (NYSE:IT), in addition to covering areas of IAM strategy, CISO Program Management mentoring, and Technology Service Provider success strategies. With a long career as a security professional and researcher, Carpenter has broad experience in North America and Europe, providing security consulting and advisory services for many of the world's best-known brands.

Perry holds a Master of Science in Information Assurance (MSIA) from Norwich University in Vermont and is a Certified Chief Information Security Officer (C|CISO).

You can connect with Perry on LinkedIn at: <https://linkedin.com/in/perrycarpenter>.

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Matt Stamper, CISA, CISM, CIPP/US, ITIL, brings a broad, multi-disciplinary understanding of cybersecurity best practices. His diverse domain knowledge spans IT service management (ITSM), cybersecurity, cloud services, control design and assessment (Sarbanes-Oxley, HIPAA-HITECH), privacy (GDPR, CCPA), enterprise risk management (ERM), and IT risk management (ITRM).

Matt excels at conveying complex cybersecurity and IT concepts to boards of directors, executive management, as well as professional service providers. His executive and board-level experience with managed services, cybersecurity, data centers, networks services, and ITSM provide a unique perspective on the fast-changing world of enterprise IT, IoT, and cloud services.

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Acknowledgments

Wow! Writing a book is such a big process; draining at times, and life-giving at others. During the writing of this book I had times of intense focus and productivity when it felt like words and information were gleefully flying from my fingertips to my keyboard and onto my screen, sitting there virtually smiling back at me. And there were other times when, frankly, I felt like finding a box of toothpicks and stabbing the entire contents of the box, toothpick by toothpick, into my eyes just to make it end.

Ok . . . that's a bit of an exaggeration. But you wanna' know what's not an exaggeration? Sure you do. So, I say this in all seriousness: Though my name adorns the wonderfully designed cover of this book, it is only able to do so because of a list of countless other names. The names of people who have provided me with so much help and encouragement throughout my life and career.

I'll start with the most important group in my life: my family. To my amazing wife, Siobhan: Thank you for always believing in me; for dealing with my craziness; and for helping me become a better version of myself, every day. You have the biggest heart of anyone I know. I'm so lucky to call you my bride and my friend. To my kids, Sage and Lily: I love you more than words can express. You make me prouder than you'll ever know.

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Believe it or not, even though I work for a vendor serving the security awareness market, I've received a ton of encouragement and support from other vendors in this space as I let them know about this book. Special thanks to Lance Spitzner (SANS Security Awareness), Lisa Plaggemier (InfoSec Institute), Tom Pendergast (MediaPro), and Masha Sedova (Elevate Security). Your faith in my handling of the material and encouragement throughout this project mean more to me than you can possibly know.

Thanks to Beth Beerman and Kathy Michael of the International Association of Security Awareness Professionals (IASAP) for your support and for sending some of your members my way to be interviewed. Having the voices of practitioners as part of this book helps ensure that the concepts are connected to how they can be implemented in the real world.

A HUGE thank you to BJ Fogg and Stephanie Weldy for reviewing the sections on the Fogg Behavior Model and for working through several iterations of text and graphics to ensure that I've captured the essence of the model faithfully and that it is applied accurately. Your support and input shine through and will make the behavior-related aspects of this book have the gravitas they deserve.

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-Perry Carpenter

Contents at a Glance

Foreword	xxi
Introduction	xxiii
I The Case for Transformation.	1
1 You Know Why.	3
2 Choosing a Transformational Approach.	19
II The Tools of Transformation.	35
3 Marketing and Communications 101 for Security Awareness Leaders	37
4 Behavior Management 101 for Security Awareness Leaders	83
5 Culture Management 101 for Security Awareness Leaders	141
6 What's in a Modern Security Awareness Leader's Toolbox?	175
7 Voices of Transformation: Interviews with Security Awareness Vendors.	201
III The Process of Transformation	237
8 Living Your Awareness Program Through the Eyes and Lives of Your Audience	239
9 Putting It All Together	251

10	Closing Thoughts	283
11	Voices of Transformation: Interviews with Security Awareness Program Leaders	293
	Appendix: Seven Key Reminder Nudges to Help Your Recall	329
	Index	331

Contents

Foreword	xxi
Introduction	xxiii
I The Case for Transformation.	1
1 You Know Why.	3
Humans Are the Last Line of Defense	4
Data Breaches Tell the Story	6
Auditors and Regulators Recognize the Need for Security Awareness Training	11
Traditional Security Awareness Program Methods Fall Short of Their Goals	14
Key Takeaways	16
References	17
2 Choosing a Transformational Approach	19
Your “Why” Determines Your “What”	20
Down the Rabbit Hole	21
Outlining the Key Components and Tools of a Transformational Program	24
A Map of What’s to Come	28
Part 1 in a Nutshell	30
Part 2 in a Nutshell	30
Part 3 in a Nutshell	31
Key Takeaways	32
Notes and References.	32

II	The Tools of Transformation	35
3	Marketing and Communications 101 for Security	
	Awareness Leaders	37
	The Communications Conundrum	38
	The Marketing Connection	40
	Defining Marketing	44
	Embedding Your Messages	53
	Get the Right Message to the Right Person at the Right Time	70
	Campaigns: If You Aren't Reinforcing, Your Audience Is Forgetting	76
	Tracking Results and Measuring Effectiveness	76
	Know When to Ask for Help	77
	Key Takeaways	78
	Notes and References	78
	Additional Reading	81
4	Behavior Management 101 for Security	
	Awareness Leaders	83
	Your Users Aren't Stupid, They're Human	85
	Thinking, Fast and Slow	87
	System 1 Thinking	88
	System 2 Thinking	91
	Working with Human Nature Rather Than Against	93
	The Nuts and Bolts of Shaping Behavior	96
	The Fogg Behavior Model	97
	The Problem with Motivation	103
	<i>Nudge</i> Them in the Right Direction	103
	Frames: Why Context Is Everything	109
	Designing and Debugging Behavior	117
	Being Intentional with Target Groups	117
	Debugging Behaviors	118
	Design "Power Prompts" Wherever Possible	122

Password Management Example, Continued	123
Habits Make Hard Things Easier to Do	130
Thinking About Guardrails	132
Tracking Results and Measuring Effectiveness	133
Key Takeaways	134
Notes and References	135
Additional Reading	137
5 Culture Management 101 for Security	
Awareness Leaders	141
Security Culture Is Part of Your Larger Organizational Culture	144
Getting Started	147
Understanding Your Culture’s Status Quo	149
Go Viral: Unleash the Power of Culture Carriers	156
Cultures in (Potential) Conflict: Remember Global and Social Dynamics	164
Cultural Forces	165
Structures	167
Pressures	167
Rewards	169
Rituals	169
Tracking Results and Measuring Effectiveness	171
Key Takeaways	171
Notes and References	172
Additional Reading	174
6 What’s in a Modern Security Awareness Leader’s Toolbox?	175
Content Is King: Videos, Learning Modules, and More	176
Big Box Shopping: A Content Analogy	178
Types of Content	181
Experiences: Events, Meetings, and Simulations	186
Meetings, Presentations, and Lunch-and-Learns	187

Tabletop Exercises 188

Rituals 189

Webinars 190

Games 190

Simulated Phishing and Social Engineering 191

Other Simulations and Embodied Learning 192

Interactions with Other Technologies 193

Relationships: Bringing Context to Content and Experiences 194

Be Intentional and Opportunistic, Always 195

 Stories and Analogies 195

 Tapping into Cultural Trends 195

 Opportunistic Campaigns Based on New
 Organizational Initiatives and Current Events 196

 The Critical “At Home” Connection 197

Use Your Metrics and Anecdotes to Help Tell
and Reinforce Your Story 197

Key Takeaways 198

Notes and References 198

7 Voices of Transformation: Interviews
with Security Awareness Vendors 201

 Anna Collard, Popcorn Training 201

 Chris Hadnagy, Social Engineer 204

 Drew Rose, Living Security 209

 Gary Berman, The CyberHero Adventures:
 Defenders of the Digital Universe 211

 Jason Hoenich, Habitu8 214

 Jim Shields, Twist and Shout 217

 Kai Roar, CLTRe 219

 Lisa Plaggemier, InfoSec Institute 221

 Masha Sedova, Elevate Security 224

 Stu Sjouwerman, KnowBe4 226

Tom Pendergast, MediaPRO	228
Winn Schwartau, The Security Awareness Company (SAC).	231
Reference	236
III The Process of Transformation	237
8 Living Your Awareness Program Through the Eyes and Lives of Your Audience	239
A Learner Journey Map: Awareness in the Context of Life.	240
Key Takeaways	248
Notes and References.	248
9 Putting It All Together	251
Before You Begin	252
The Five Secrets of Security Awareness Success	252
Tips for Gaining Buy-In	259
Leverage Cialdini’s Principles of Persuasion	264
Making Adjustments	269
Thoughts About Crafting Campaigns.	269
Thinking Through Target Groups.	271
Be Intentional with Recognition and Reward	277
Assembling Your Culture Carriers.	277
Measuring Your Success	278
What Does the Future Hold?.	279
Key Takeaways	280
Notes and References.	281
10 Closing Thoughts	283
Leverage the Power of Community.	283
Be a Lifelong Learner	285
Be a Realistic Optimist	290
Conclusion	291

11	Voices of Transformation: Interviews with Security Awareness Program Leaders	293
	Bruce Hallas, Marmalade Box	294
	Carlos Miró, MUFG Union Bank	296
	Dr. Cheryl O. Cooper, Sprint Corporation.	298
	Krina Snider, Sprint.	302
	Mark Majewski, Quicken Loans.	305
	Michael Lattimore, Independent Consultant.	307
	Mo Amin, Independent Consultant	311
	Prudence Smith, Senior Cyber and Information Security Consultant and Industry Speaker	313
	Thom Langford, (TL)2 Security.	320
	Tory Dombrowski, Takeform.	323
	 Appendix: Seven Key Reminder Nudges to Help Your Recall	 329
	 Index	 331

Foreword

Perry Carpenter is a highly respected cybersecurity guru who I've gotten to know over the last two years. He has 15+ years of experience in the field both as a practitioner and as an analyst. He's sharp, is incredibly analytical, has a knack for psychology, and is a prolific writer. I first met Perry when he started working at KnowBe4, but I'd heard of him when he was an analyst at Gartner through KnowBe4's CEO Stu Sjouwerman. Perry and I always play off of one another on webinars that we put on together for KnowBe4. We have a natural chemistry that is sometimes hard to find. A big reason for that natural chemistry is one of the first things that drew me to him—our mutual love of magic. We both have such a fascination with it that we took turns showing each other magic tricks one day.

Social engineering threats have been around since before I was born. Con artists continue to get better. That's a big reason why I look at security awareness as an absolute necessity—because humans can be easily influenced to reveal confidential information or to perform actions through manipulation and deception. Regardless of what the software does, humans can be tricked to do whatever another human wants. There's no software in the world that can protect a system against a pretext. People must realize that technology alone won't protect them. That's why it's crucial to implement entertaining, relevant, and informative security training to make it matter to employees personally (appeal to self-interest), which helps change behavior.

Perry has put together a comprehensive book about security awareness programs that every security professional should read. It covers a variety of topics related to security awareness including the psychology of the behaviors behind getting someone to perform a certain act or care about a certain topic, the use of marketing and communications tactics to enhance security awareness training, leveraging social pressures to change culture, and more. He's also added a compilation of voices from the cybersecurity industry who provide their advice about how to put on your best security awareness training.

Not only does Perry address the “how” behind putting together a comprehensive and effective security awareness training program, he addresses the ever important “why.” Why should people care about it? Why would it appeal to him/her personally? He even breaks it down to simplify why you should have a security awareness training program in the first place. Knowing the

ultimate purpose and goal of your security awareness program is important because it correlates directly to the impact of your program.

One thing that I particularly enjoyed about his book was that he talked in detail about the importance of repetition when it comes to effectively getting a message across, and then he proceeds to summarize and repeat the most important points at the end of each chapter in the book. Perry also uses a line throughout the book that I'm a big fan of: "Just because I'm *aware* doesn't mean I *care*." Keep that in mind as you develop your security awareness program. Plan for it and work with human nature rather than against it to make your program more effective and to go beyond mere awareness. When we connect with people on an emotional level, the chance of them actually caring increases dramatically. Your ultimate goal should be to change end-user behavior and to shape the organization's overall security culture.

We can't argue that the world is in desperate need of better equipped security awareness leaders. And the human element is the most important one when it comes to your cybersecurity program. Beyond technology, beyond software, people are truly your last line of defense. At the end of the day, it all comes down to people. Perry has a way of masterfully exploring how people think and why they act the way they do. This is a fascinating read and, once again, something I'd recommend to everyone in the cybersecurity field.

—Kevin Mitnick

Introduction

I have a confession to make. This may sound strange, but pondering human thought and behavior is one of my favorite things to do. I think it's always been that way for me. I've wanted to know what makes people tick. Because of that, I've gone down a few interesting roads of study, from music, to religious studies, to magic and misdirection, to social engineering, to training as a street hypnotist and theatrical mind-reader, to taking classes in pickpocketing, to learning the ins and outs of public speaking and influence tactics, to graphic design, and more.

In all of this, I think I've actually been trying to understand why I do the things that I do and think the things that I think. You see, I've always felt a bit different. And that difference was confirmed to me late in life when I was diagnosed with Asperger's syndrome (a neurological difference also known as autism spectrum disorder, or ASD). In many aspects of life, this neurodiversity has served me well. I see the world in a different way. And that off-centered view of things has helped me find solutions or phrase answers in ways that can sometimes elude others. And, often, I'm sure that my way of approaching things has resonated not because it is better or more insightful; rather, it can resonate because it is quirky enough to cut through someone's pre-established filters.

In other areas of life, the social areas, I often felt (and sometime still feel) like an alien or a social anthropologist seeking to better understand the strange and wonderful inhabitants of this world. That *seeking to understand* is something that I still do every day. So, pondering human thought (psychology), our behavior (behavior science), and group dynamics (culture) is ceaselessly interesting and fun. The best part of it (professionally) is that I've had the opportunity in my career to make this quest part of the mandate for my daily job.

The Security Awareness Connection

The various roles throughout my professional life have offered me a unique vantage point when it comes to security awareness programs and to the security awareness market. I've seen security awareness from virtually every conceivable angle.

- I've been the recipient of security awareness training at former employers.
- I've designed and implemented security awareness programs at multiple Fortune 500 companies.
- I've served as the Gartner analyst covering the security awareness market, authoring the Magic Quadrant for the space, advising vendors, and helping security awareness program managers design their programs.
- And now, I help shape the awareness market and seek to serve security awareness leaders around the world by working within the security awareness vendor community.

Over the 15 or so years that I've been directly involved in building my own programs, advising security leaders and vendors, or helping shape the future of KnowBe4, I've learned a thing or two about what makes a security awareness program viable and scalable for long-term success. I've seen what does and doesn't work. And I've helped to build real, functional, security awareness programs that have shaped the behavior of employees as well as molding the way that organizations perceive and value security within their broader culture. Isn't that our goal? I'm pretty sure you agree. After all, if that's not what you are hoping to achieve, you probably wouldn't be reading this.

I'm resisting the urge to summarize the entire book for you right now. But, as I do that, there are a few things that I can't help but allow to leak forward and spill onto this page. Specifically, I want to let you in on the main thesis of this book. It's this: the concept of "security awareness" can suffer from a fatal flaw, what I call the *knowledge-intention-behavior gap*. Just because your people are *aware* of something doesn't mean that they will *care*. And, even if they *care* and *intend* to do the right thing, a whole host of situations and contexts can interfere with the follow-through (the desired *behavior*). So, there is a gap between *knowledge* and *intention*. And there is a gap between *intention* and *behavior*.

A *transformational* security awareness program proactively accounts for the *knowledge-intention-behavior gap*. It does so by working with, rather than against, human nature. And it does so by setting an intentional, eyes-open, focus on the idiosyncrasies of human nature, human behavior, human thought and reasoning, social dynamics, the power of emotion, and more. A transformational security awareness program will allow these realities to define the program strategy rather than just tossing out the next security video or dragging everyone through the doldrum of the next annual PowerPoint fest.

Thinking Forward

I was very intentional about the cover image for this book. Take another look at it now. When we think about the concept of transformation, it's easy to think about a caterpillar's transformation into butterfly. But all too often, we think about the butterfly emerging from the cocoon. That's great—but it's the *end* of the story. Notice, however, in the cover photo, you see the caterpillar casting the *shadow* of a butterfly. It's about the future potential of what exists in the now.

This book is about helping you see the potential of what is possible and then helping you plan practical ways to move toward that transformational outcome. So, in the same way that you can look at a caterpillar and imagine the future butterfly, I want you to imagine. Imagine yourself, your program, your people, and your organization a year from now: *transformed*.

Let the Fun Begin

Let's make this a conversation. I'd love to know your thoughts as you progress through the book. Keep me up-to-date on any transformational stories you have. Or, let me know if I can help with anything.

Lastly, if you enjoy this book and think it's helpful, recommend it to others, write a review, and buy copies to give to all your friends, family, and co-workers this holiday season. OK, that last part was somewhat in jest. But I do sincerely hope to hear from you.

You can connect with me on LinkedIn ([/in/perrycarpenter](https://www.linkedin.com/in/perrycarpenter)), on Twitter ([@perrycarpenter](https://twitter.com/perrycarpenter)), or on the Web (<https://TheSecurityAwarenessGuy.com>).

Perry Carpenter
March 2019



The Case for Transformation

In This Part

Chapter 1: You Know Why. . .

Chapter 2: Choosing a Transformational Approach

