Surfing the motivation wave to create security behavior change

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Elevate Security

About Me



Computer security meets behavioral science



Co-Founder of security behavior change company

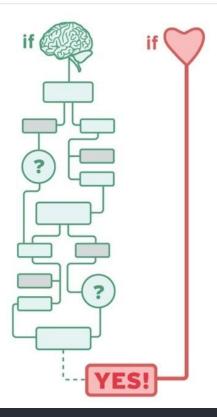


Built and ran
Salesforce trust
engagement team



Passionate about transforming security behaviors from "have to" to "want to"

"I want my employees to be better at security"



This presentation will explore:

- Myths about influencing security habits
- The behavioral elements of human beings that can get to us to security behavior change
- Focus on motivation as a key element

Myth #1

Training will change behavior

Training Doesn't Work





Rethinking Communications

The problem must be in the method of delivering this information - right?!

We've been creative about ways to get information in front of people:

- Videos
- Posters
- Newsletters
- Websites
- Talks
- Lavatories





36.5 million adults in the United States currently smoke cigarettes

Knowing Isn't Enough

WE UNDERSTAND WHAT GOOD PASSWORD BEHAVIOR SHOULD LOOK LIKE





choose a part that is eas remember

41% choose a password that is easy to remember



61% use the same or similar passwords

Lastpass 2017

Behavior Change Components

- Motivation
- Ability
- Triggers



Behavior Change Model



By Dr. Bj Fogg

Myth #2

People have to care about security, all the time

Unrealistic Expectations



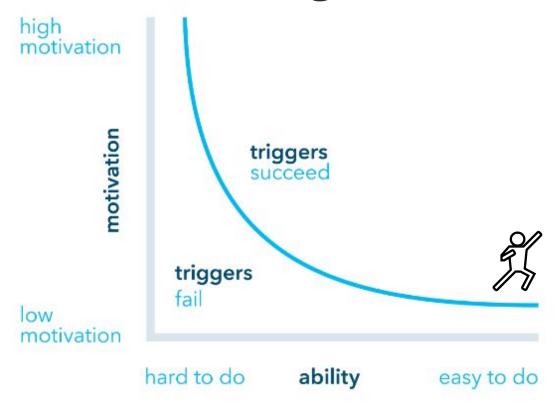








Behavior Change Model



By Dr. Bj Fogg

Security Action Can Be Simplified



Having secure passwords for all sites



Reporting suspicious activity



Stop tailgating

HARD

Remember 20 unique characters across 40+ sites

EASY

Install a password manager

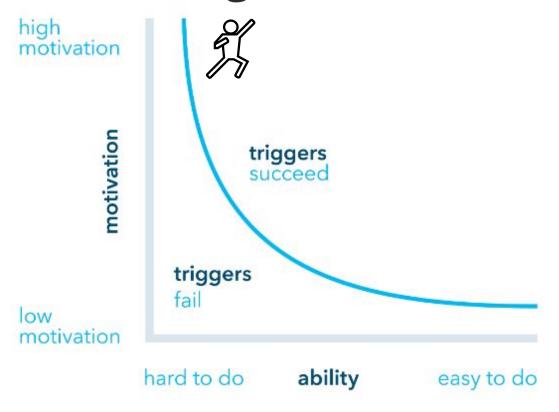
Look up correct email, reporting guidelines & send

Install a "Report" button

Social Accountability

Install a man-trap or in/out badging

What about things that are hard to do?



By Dr. Bj Fogg

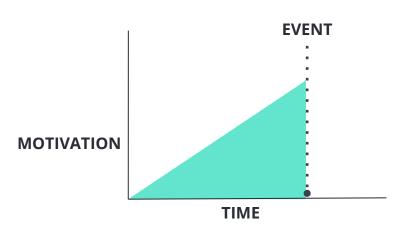
When Does Motivation Occur?

Hard things require high motivation.



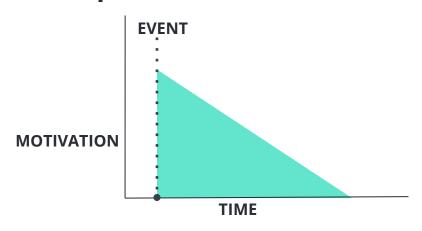
Naturally Occurring Motivation

Predictable Events



- Audits
- Red Team exercises

Unpredictable Events



- Breaches
- Incidents
- News events



Myth #3

Money is a good motivator

Market Norms

Assigning a monetary value to an exchange





Social Norms

The actions among friends that are not based on money.

Dan Ariely, PhD Predictably Irrational

"Generating" Motivation

- Connect security to the things people already care about.
- People are motivated by:

 Hope/Fear

 Social Acceptance/Rejection
 Pleasure/Pain



People will do something because they matter, they are interesting, part of something more important.

Daniel Pink, Drive

Myth #4

Shame/blame for bad behaviors is a good tactic

Positive
VS
Negative
Motivation



How to Create Positive Motivation









Status

Leaderboards
Top performer award



Capture the Flag
Bug Bounties

Altruism

Feedback on their impact Champion Programs

Access

Awarded points

Access to exclusive swag

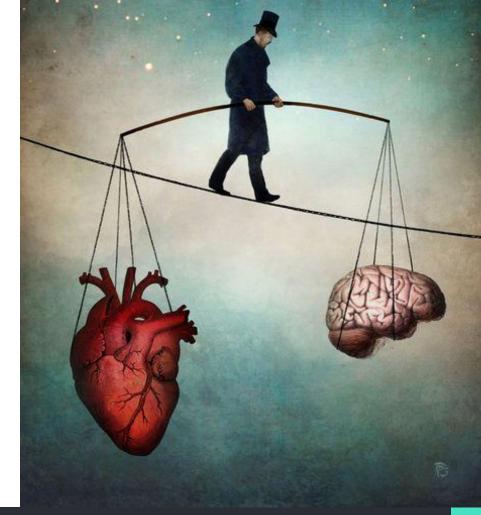
Achievement

Recognition emails

Company-wide shoutouts

Takeaways

- Motivation is required when something is hard to do.
- First- make it easy. Second- rely on motivation.
- Leverage naturally occurring events for motivation.
- Connect intrinsic motivations to security motivation.
- Negative feedback should be balanced with positive motivation.



Comments? Questions?

Let's stay in touch!

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