

# Weaponizing Layer-8



@khae



The background is a composite image. The top portion shows a dark blue night sky filled with stars. A horizontal band across the middle contains a blue sky with white clouds. The bottom portion shows a vast, flat green field of crops, with a single, full-canopied tree standing in the distance on the horizon.

# Why is this talk relevant?













HUMANS MATTER

# How Cyber impacts the physical domain

The background of the slide features a series of concentric circles in various shades of blue, creating a ripple effect. Overlaid on this are several white, wavy, mesh-like lines that flow across the frame, suggesting a digital or cybernetic theme.





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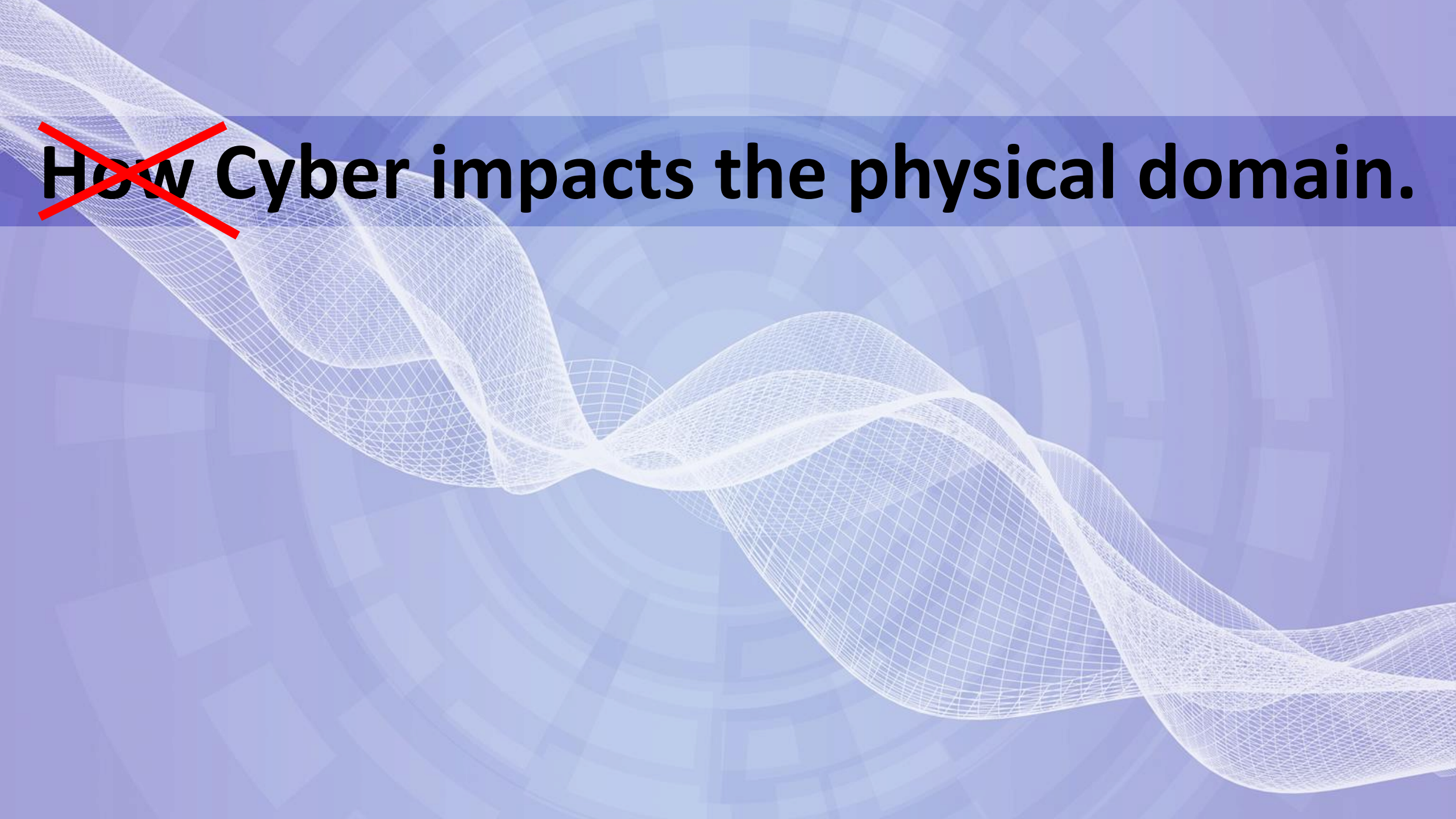












~~How~~ **Cyber impacts the physical domain.**



# Empowering Users

The background features a series of concentric circles in various shades of blue, creating a sense of depth and movement. Overlaid on this are several white, wavy, ribbon-like lines that flow across the frame, adding a dynamic and modern feel to the design.



An aerial photograph of a parking lot with two rows of numbered parking spaces. The top row is numbered 623 to 606 from left to right, and the bottom row is numbered 664 to 649 from left to right. Various cars are parked in the spaces. A semi-transparent blue banner with a white grid pattern is centered over the image, containing the text "How to deal with USB sticks".

# How to deal with USB sticks



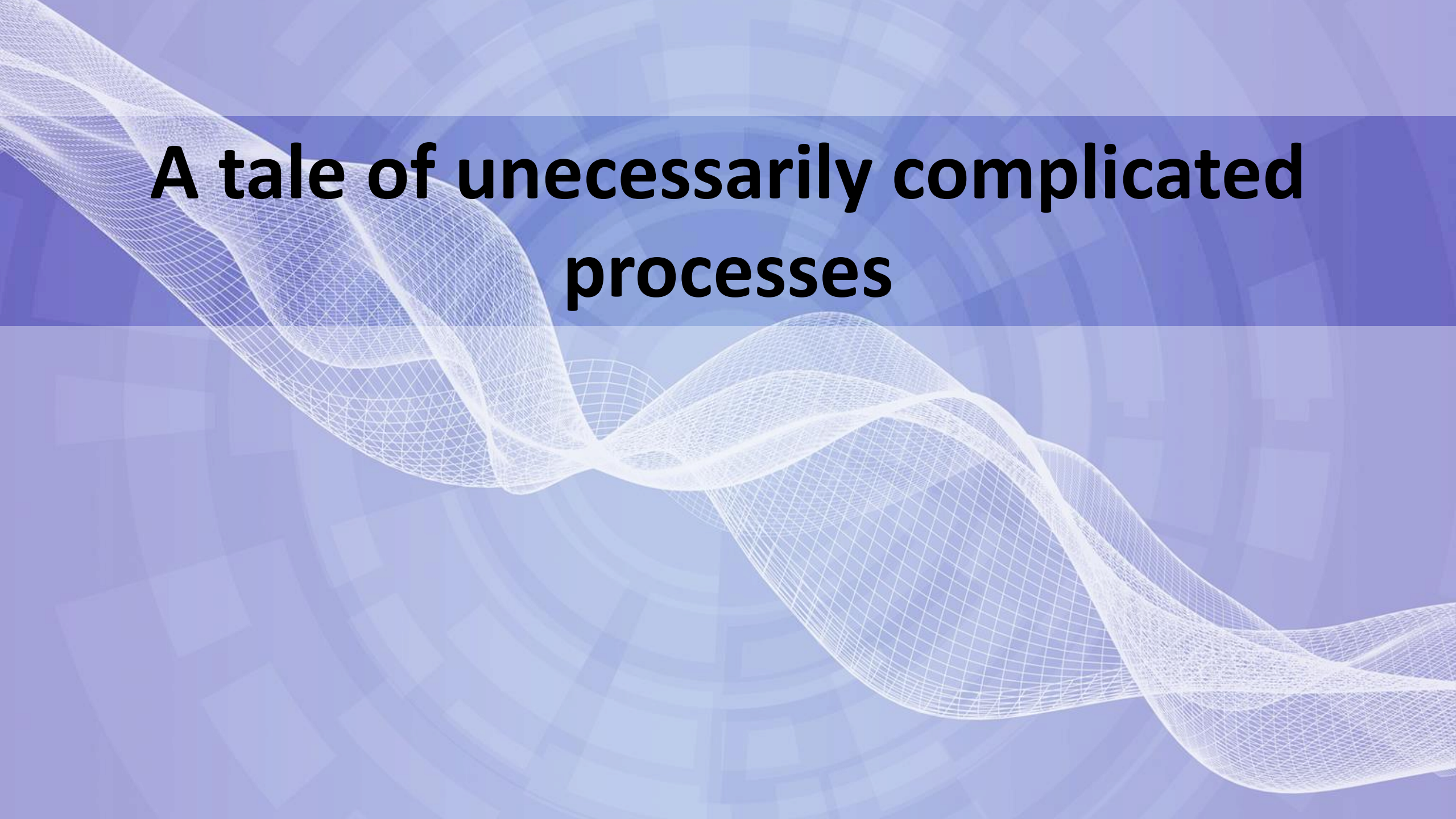




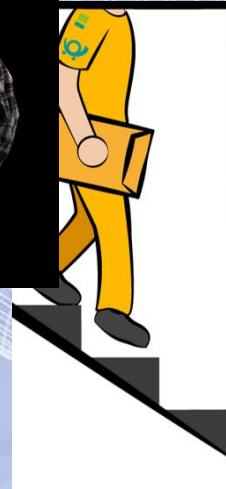
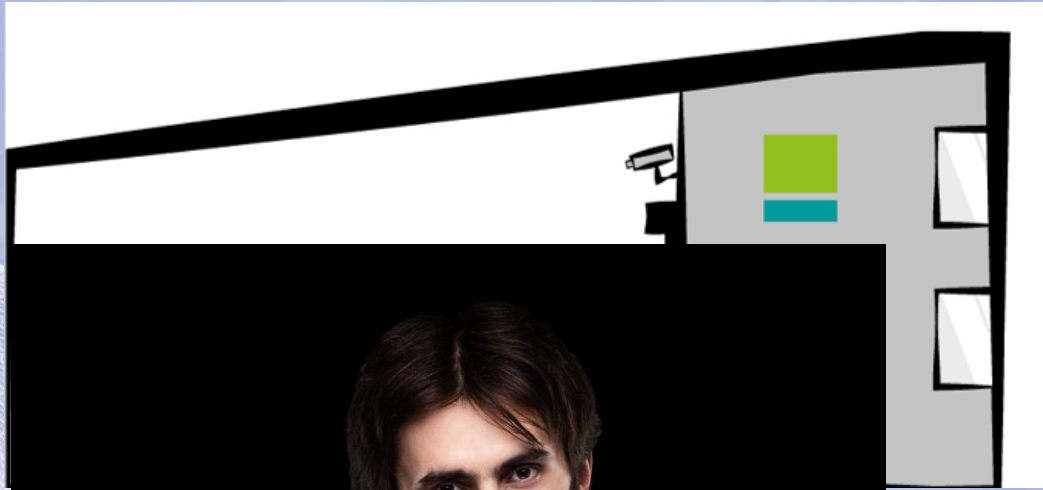




# **A tale of unnecessarily complicated processes**









# Gone Phishing





# Which of those links is malicious?

<https://bit.ly/2I12tV0>

<https://www.amaz0n.com>

<https://nore2flev4ertx1brzg3.man>

<https://paypal-security.legitdomain.com>



# Indicators of Bullshit (IoB)

Thanks to Bryan Fite for coining the term IoB!



A person wearing a red shirt is holding a large quantity of gold coins in their cupped hands. The coins are stacked and piled together, filling the palms and fingers. The background is blurred, showing a light-colored wall and a dark surface.

# Money!



A black and white photograph of a person wearing a hooded garment, possibly a hoodlum or a person in a costume. The person's face is partially visible, looking downwards. The word "Threats!" is overlaid in large, white, sans-serif font across the center of the image. The background is dark and blurry, suggesting an outdoor setting at night or in low light.

# Threats!





Romance!





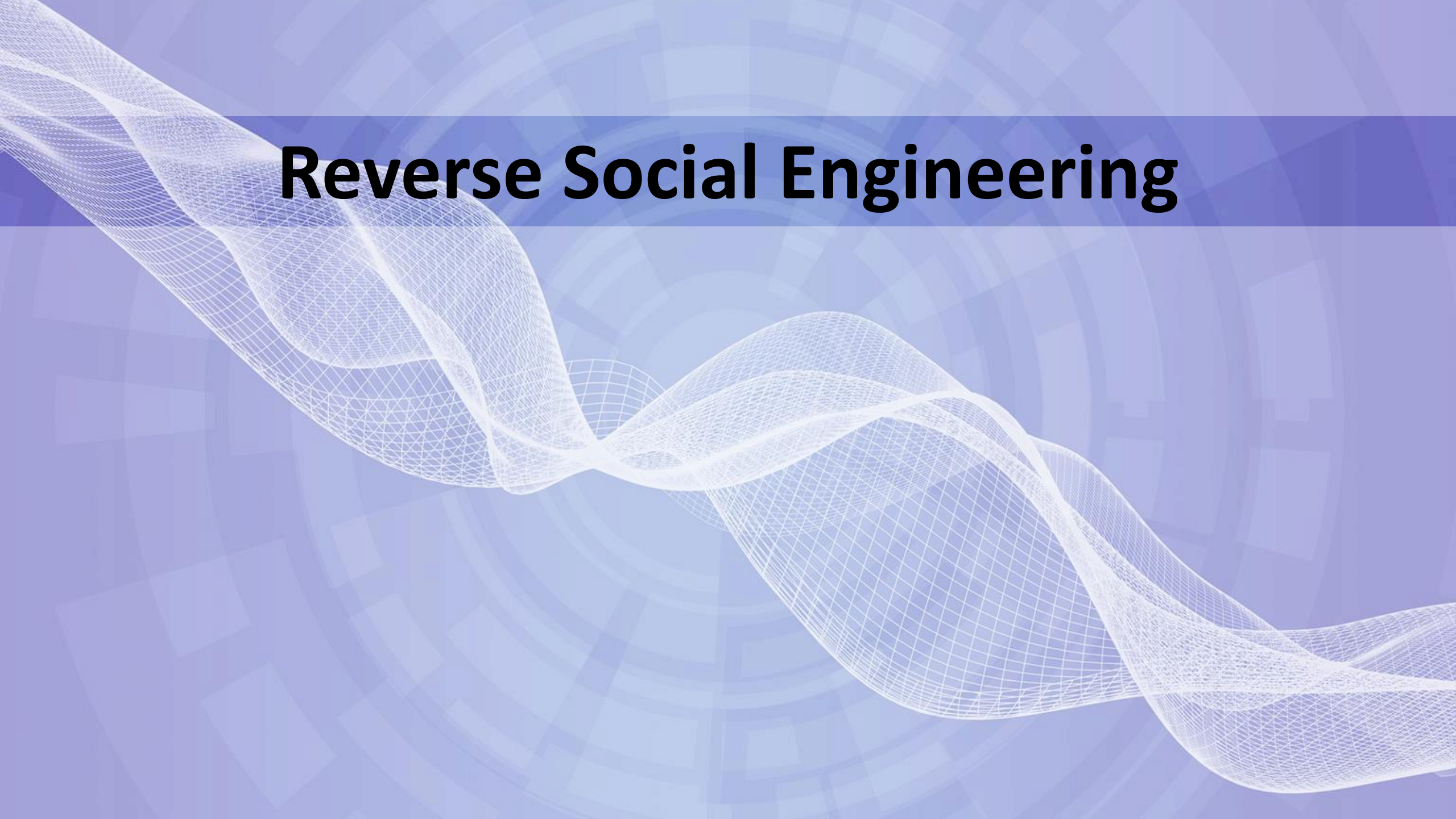
# Urgency!







# Reverse Social Engineering



















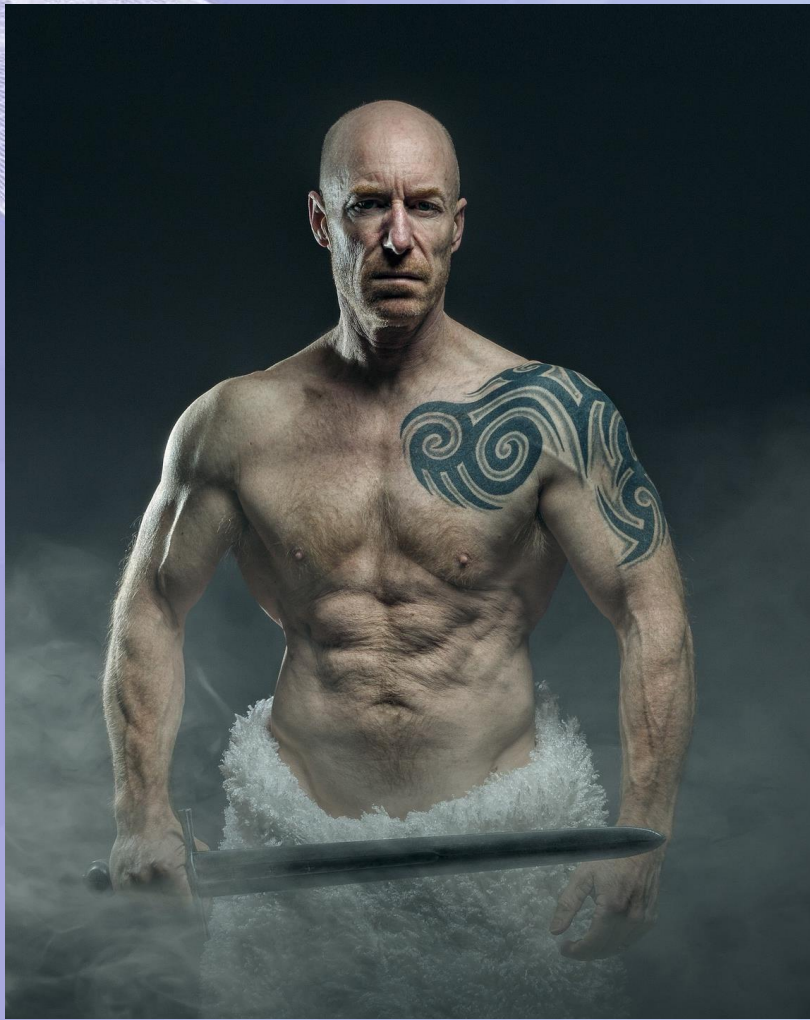




# **Passwords**

## **Company Style**









**^E-MSK&t4^gBsC9>k6ApQ>#d**

**VS.**



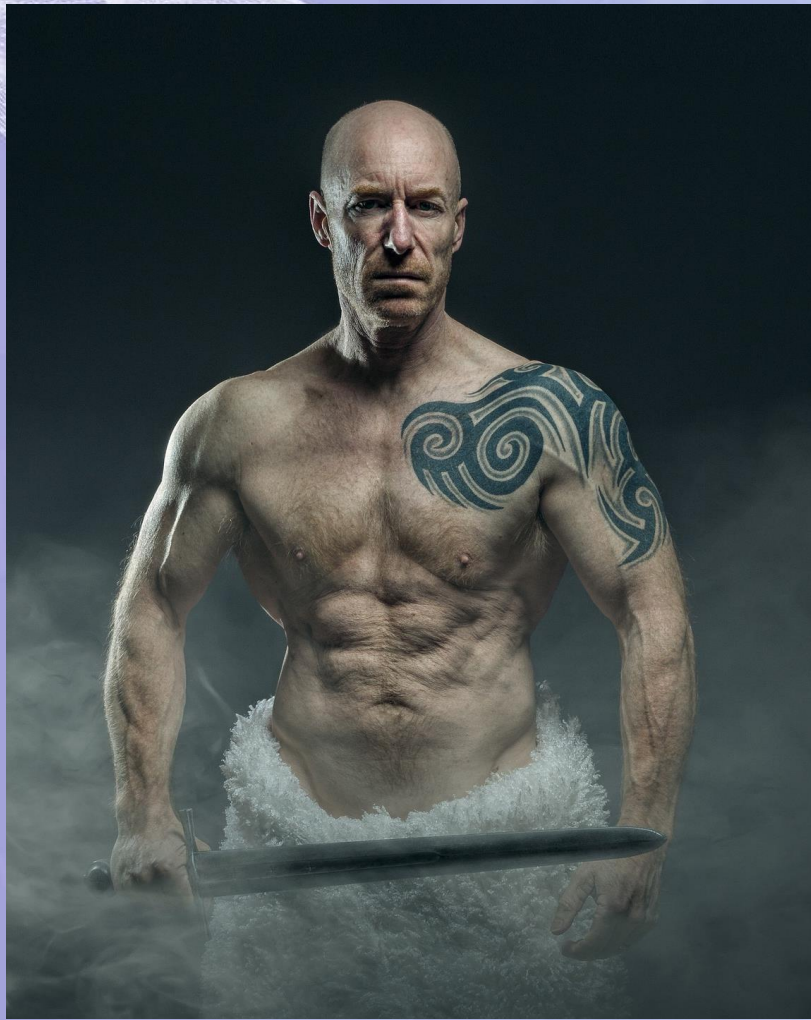
**password1**



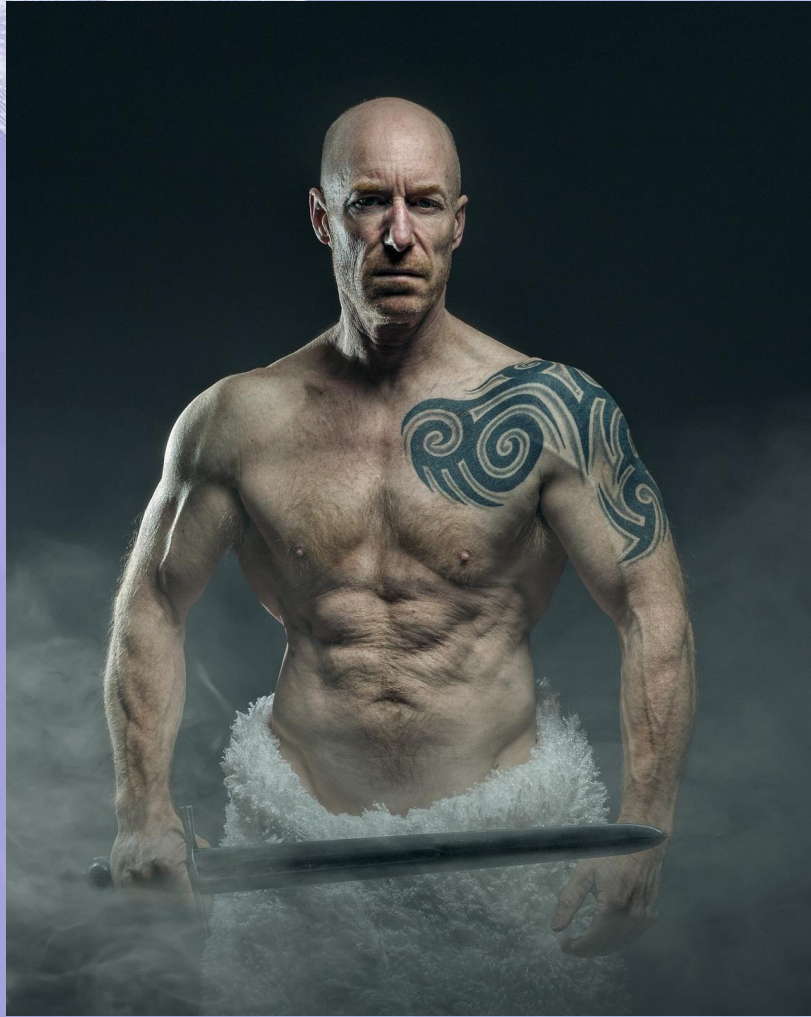


# **Passwords Family Style**















[HOME](#) > [MOBILE](#) > [TRUMP REPORTEDLY IGNORES SMARTPHONE SECURITY BECAUSE IT'S 'TOO INCONVENIENT'](#)

# Trump Reportedly Ignores Smartphone Security Because It's 'Too Inconvenient'

By Ryan Whitwam on May 23, 2018 at 7:30 am | [46 Comments](#)



# **Make Awareness Training Interesting**

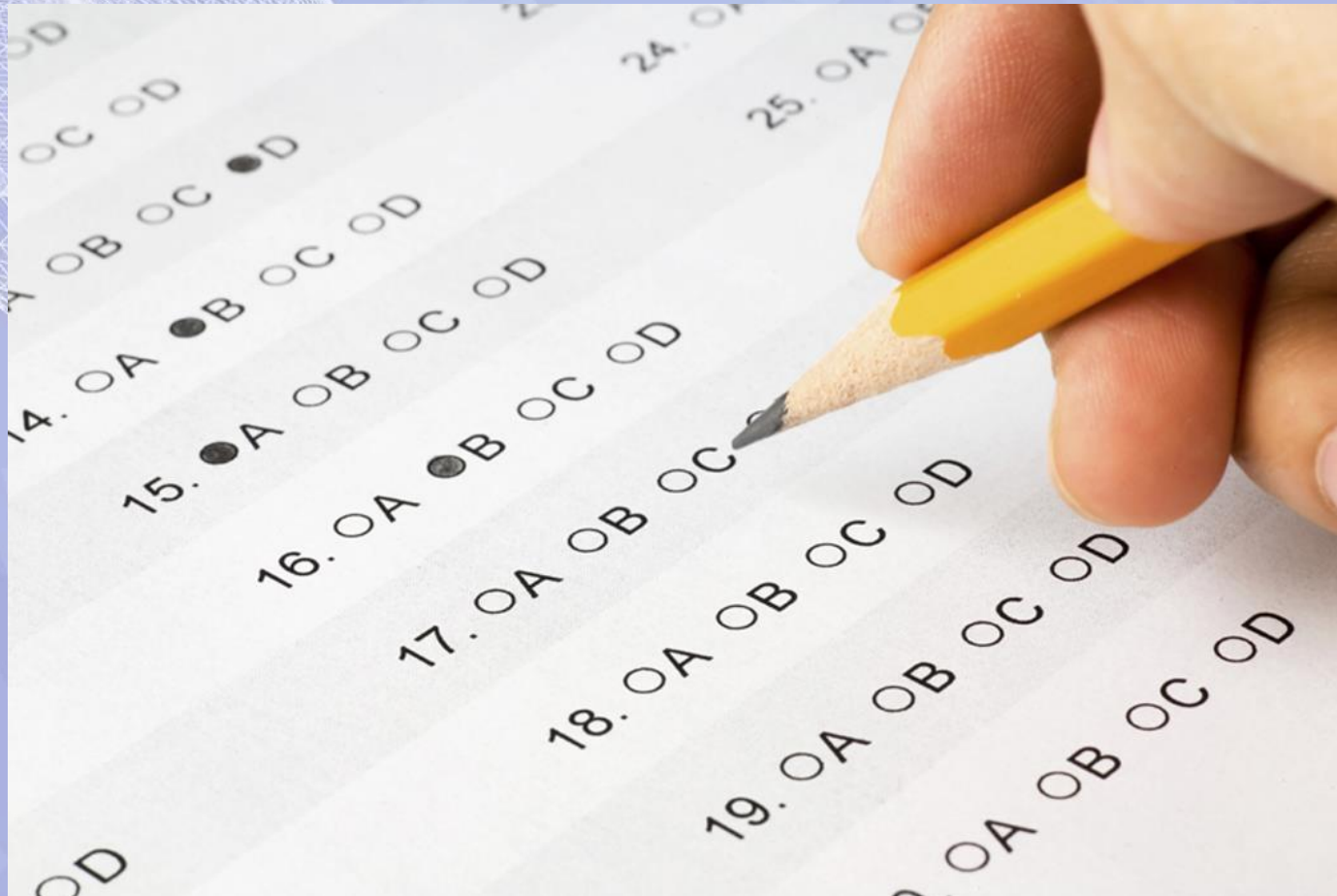


# Avoid FUD



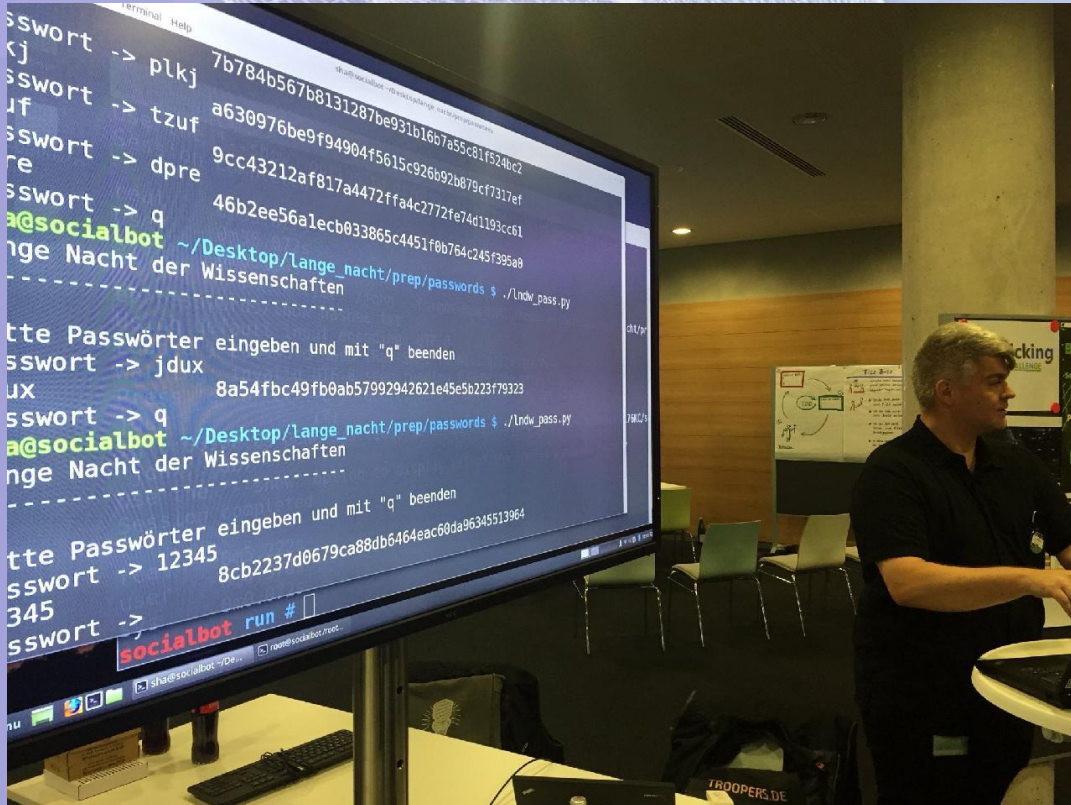


# Avoid Multiple Choice Clickfests





# Engage the users





# Use multiple channels





# Find the right language



Replying to



If I had the time, budget, and motive to launch really good attacks in Vegas, I would:

✗ Attack random Defcon nerds who are probably mostly broke and powerless

✓ Attack ppl at BlackHat who are way more likely to be in positions of power somewhere with 💰 to drop on tickets

9:12 AM - Aug 8, 2018





# **Conclusion and Call for Action**



# Links

- Swatting: <http://edition.cnn.com/2018/01/03/us/kansas-police-shooting-swatting/index.html>
- Usb-keys: <https://elie.net/blog/security/concerns-about-usb-security-are-real-48-percent-of-people-do-plug-in-usb-drives-found-in-parking-lots>
- Detention station example: <https://odi-x.com/odix-kiosk/>



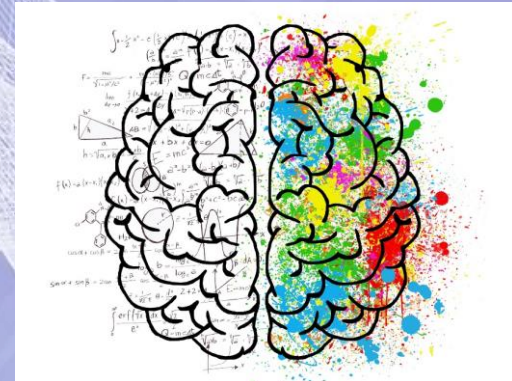
# Thanks for listening.



@khae

*Many Thanks to Bryan Fite for the  
contributions to the original  
version of this talk!*

*work*







# Questions?

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Big Thank you to the photographers  
and artists!