# Using Science Fiction to Teach Cybersecurity

**Brad E. Rhodes** 

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#### Outline

WHOIS: Brad Rhodes

Why Teach Cybersecurity with Science Fiction?

1960s

1980s

1990s

2000s

Star Trek

Star Wars

#### WHOIS: Brad Rhodes

#### • TLDR:

- Senior Manager, Accenture Federal Services
- COL, Cyber (17A), 76<sup>th</sup> Operational Response Command G6/CIO
- Military Cyber Professionals Association, HammerCon Co-Lead
- Speaker, Author, Professor, Coach
- #toomany Pro-Certs, highlights: CISSP-ISSEP, CISM, CDPSE, PMP, CEH,
  GMON, GCIH, Cloud+, CySA+
- Extra Class Amateur Radio (HAM): KG4COS

Feel to view/listen/grab my previous presentation/articles here: <a href="https://github.com/cyberguy514">https://github.com/cyberguy514</a>

# accenture











Why Teach Cybersecurity with Science Fiction? Science fiction influenced technology

Everyone loves a good (relatable) story

There really is <u>science</u> in science fiction

Education does not have to be boring

Cybersecurity training should be memorable

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## The Italian Job (1969, 2003): Smart City Hacking





Credit: © & TM Paramount Pictures

#### War Games (1983): Bug Bounty Programs



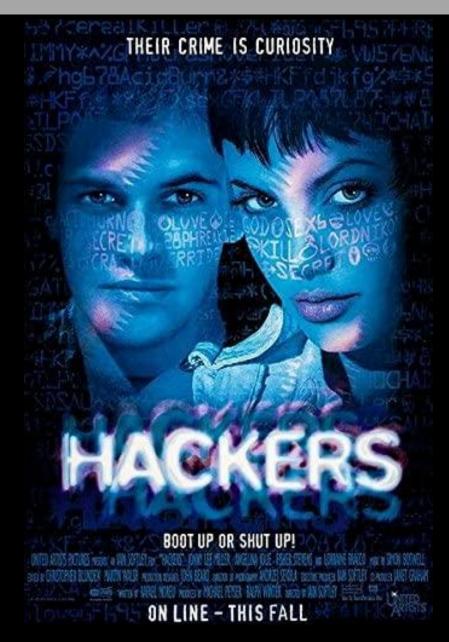
#### Die Hard (1988): Building/Control Systems Attack



#### **40 STORIES OF SHEER ADVENTURE!**



### Hackers (1995): Physical World Impacts

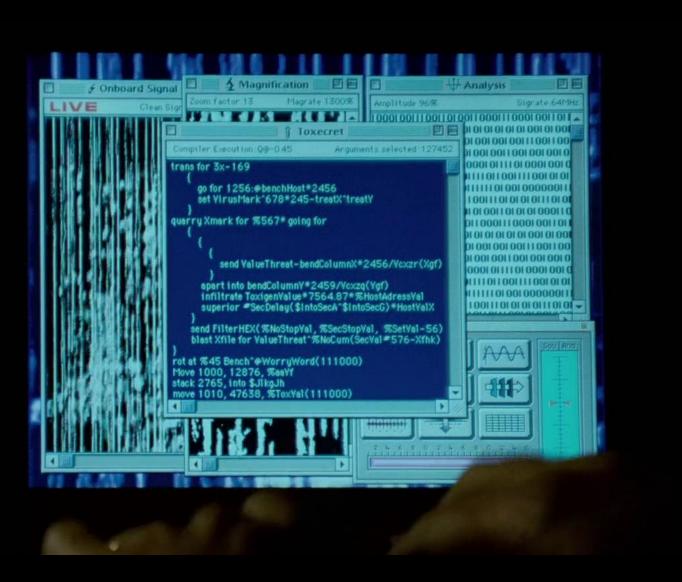




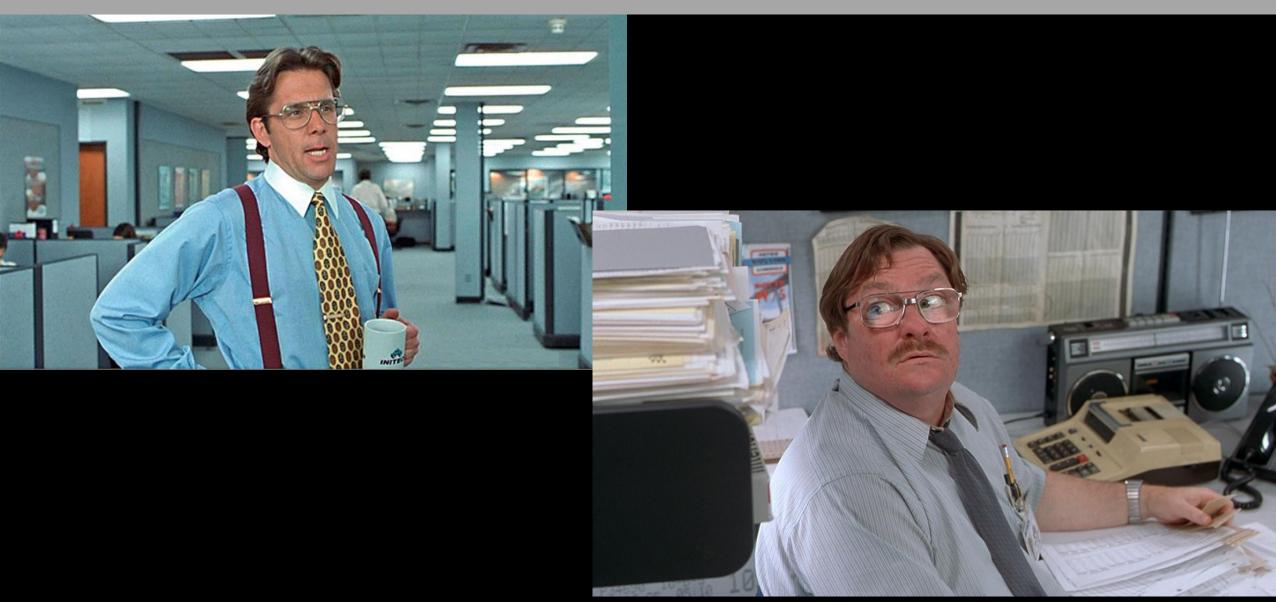
https://www.bbc.com/news/technology-40685821

#### Independence Day (1996): Secure your exposed systems!

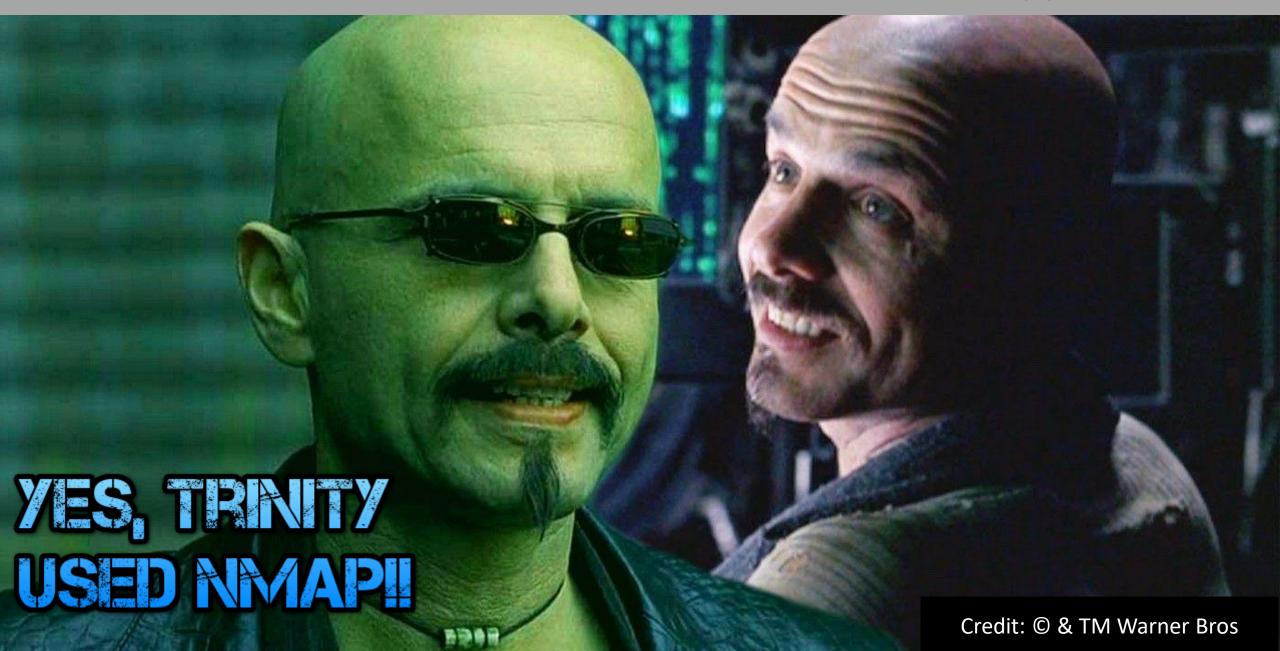




## Office Space (1999): Salami Slicing



#### The Matrix (1999): Malicious Insider "Cypher"



#### Battlestar Galactica (2004-09): Network Segmentation



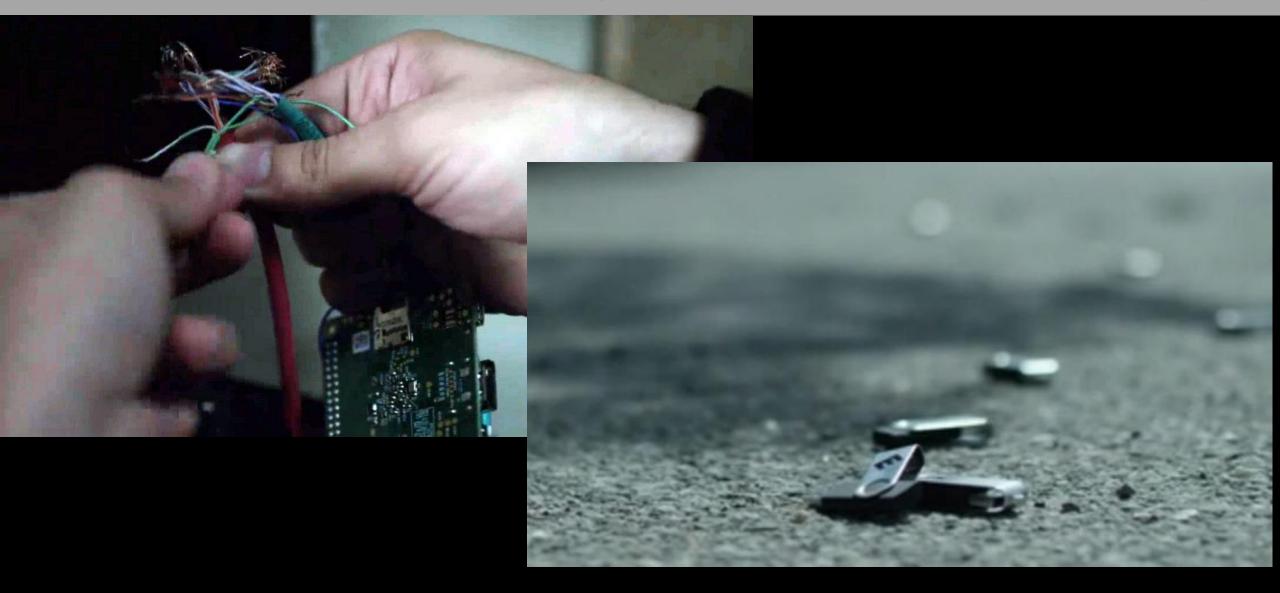
#### Battlestar Galactica (2004-09): Networked = Hackable



#### G-Force (2009): Internet of Things / Supply Chain



# Mr. Robot (2015-19): Physical Access and USB Drops



### The Orville (2017): Misinformation/Disinformation



## Ready Player One (2018): Virtual Reality





#### Star Trek (1960s+): Change Your Passwords!

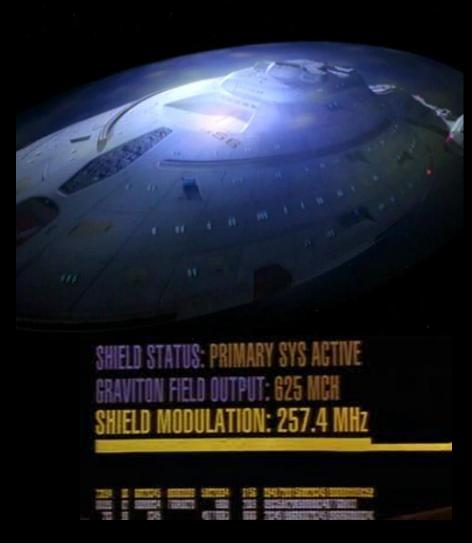


#### Star Trek (1960s+): Deception / Honeypots & Nets



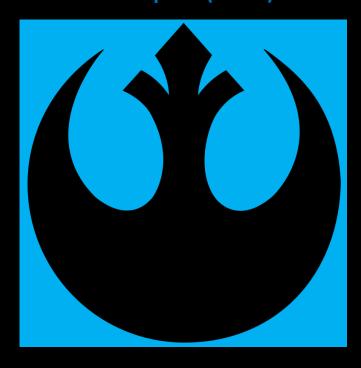
#### Star Trek (1960s+): Defense-in-Depth & Perimeters





#### Star Wars (1970s+): Good, Bad, & Gray Spaces

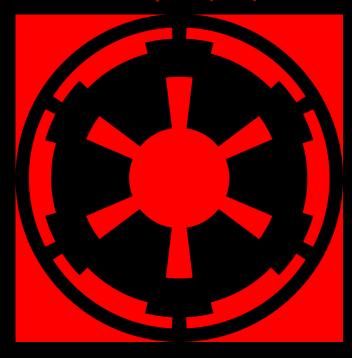
**Blue Space (Good)** 



**Gray Space (Internet)** 



**Red Space (Bad)** 



#### Star Wars (1970s+): Tools & Intent



#### Star Wars (1970s+): Vulnerabilities & Insiders

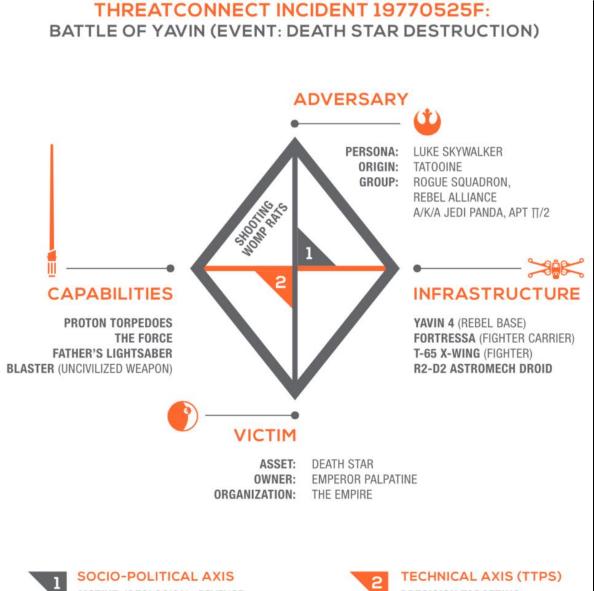


### Star Wars (1970s+): Tailgating, Social Engineering



Credit: © & TM Lucasfilm/Disney

#### Star Wars (1970s+): The Diamond Model



#### Reference:

https://threatconnect.com/blog/ diamond-model-threatintelligence-star-wars/





# Closing Thoughts

Learning should be FUN!

Networked or not, it can be hacked

There is no perimeter

Defend in Depth

Don't trust Mandalorians

And finally...

### ... "Have you seen my stapler?"





# Thanks & Q&A!

Happy to connect: <a href="https://www.linkedin.com/in/brad-e-rhodes-cissp-issep-cism-gcih-1951ba7/">https://www.linkedin.com/in/brad-e-rhodes-cissp-issep-cism-gcih-1951ba7/</a>