

# **reaching & teaching youth about cybersecurity**

**...IF ANYBODY WILL LET  
YOU**

jay smith

circlecitycon 2019

GEES ARE NOWHERE  
NEAR AS TOUGH AS  
THEY THINK THEY ARE

- TODD TZU

# INTRO TO ME

---

JAY SMITH



US Army Vet  
Psychology at University of Louisville, focused  
on theories of learning and adaptation  
Self taught web developer  
Pivoted to InfoSec in 2015 while learning SQL  
Transportation Industry by trade

OR...

THIS CHIRPING GIBBON

@SimpleSkink

CircleCityCon 2019



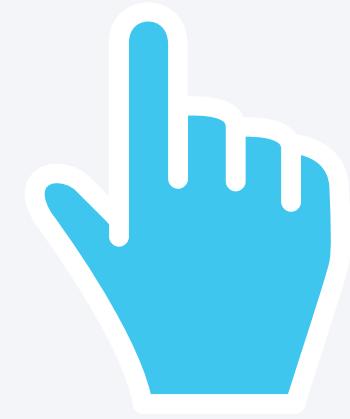
## DISCLAIMER

**Results of campaigns like this  
will probably vary wildly, this  
is just my experience.**

IT'S A STICK, STRING  
AND WORM, FFS! WHY  
DO I HAVE TO TEACH  
HIM HOW TO FISH?

- TODD TZU

# the landscape



**NEED**



**JOB  
SKILLS**



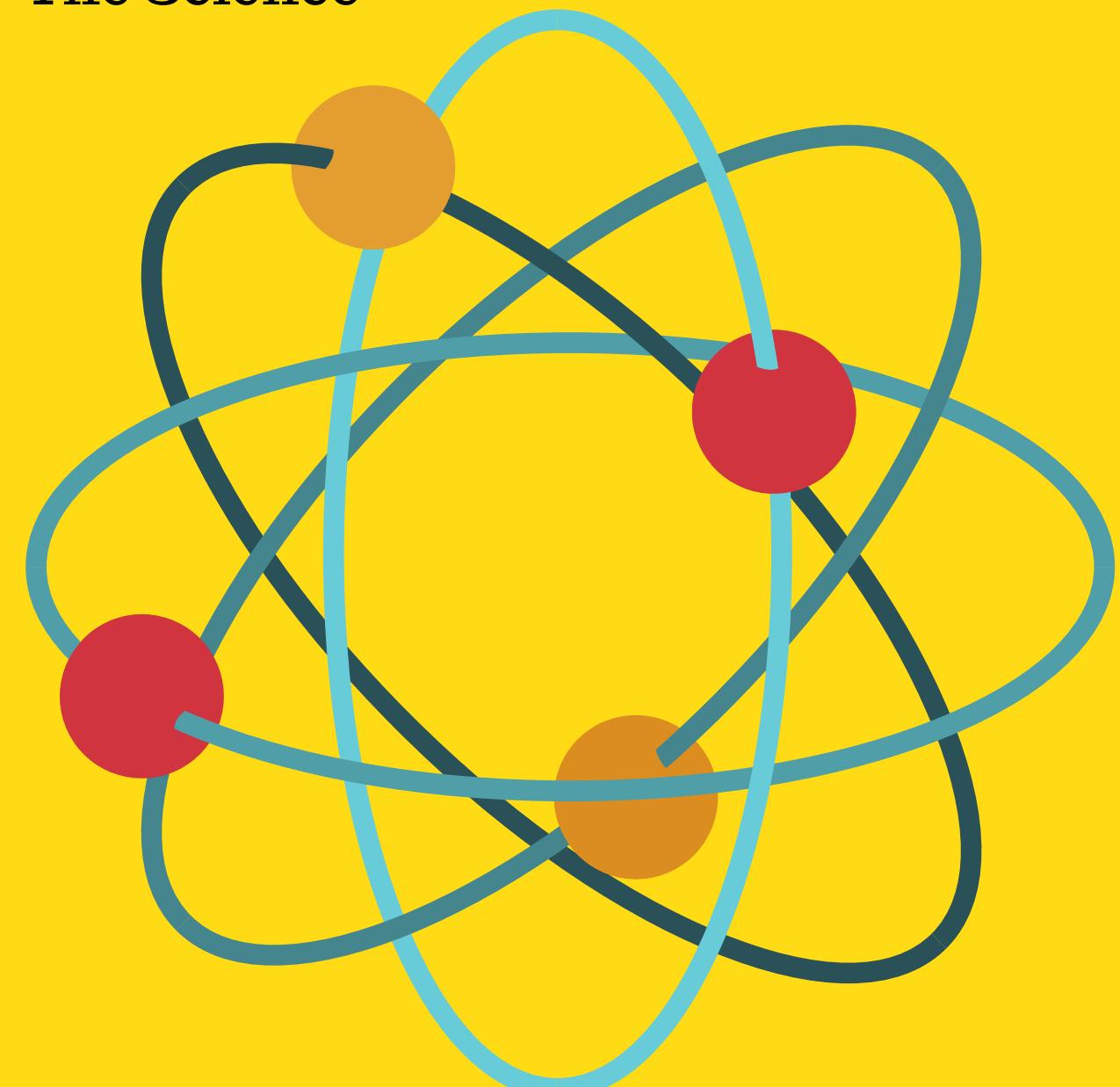
**SAFETY**



**PLASTICITY**

# DEVELOPMENTAL PLASTICITY

\*The Science



\*See last slide for research citations.

jay smith

CircleCityCon 2019

# HEURISTICS

\*Opinions I've formed based on commonly accepted principles of learning that inform this topic



# PROPS

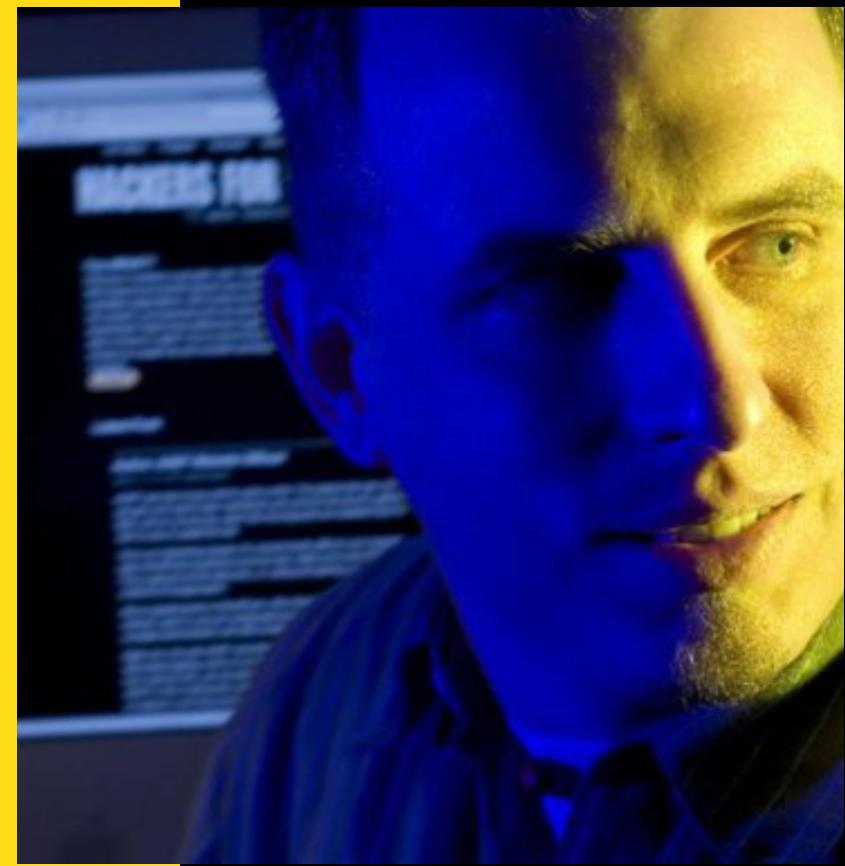
---



BenOxA



Hackers in Education



JOhnny Long

Rob Fuller



jay smith

CircleCityCon 2019

THIS TEA TASTES LIKE  
A DONKEY'S FLOP  
SWEAT, MOM.

- TODD TZU

**'ASSUMPTION IS THE  
MOTHER OF ALL  
MISTAKES'**

- EUGENE LEWIS FORDSWORTHE

# FIRST STOP:

---

## LOCAL LAW ENFORCEMENT



# RESULT

---

LOCAL LAW  
ENFORCEMENT



# RESULT

**Security by Obscurity thwarts  
the presumptive hacker**

## LESSON LEARNED

jay smith

CircleCityCon 2019

# PIVOT TO PUBLIC SCHOOL DISTRICT

---



jay smith

CircleCityCon 2019



# RESULT

**Defense in Depth and enticing  
Honeypot stymies me again**

# LESSON LEARNED





# ENGAGE THE SCHOOLS DIRECTLY

---

# PIVOT

jay smith

I LOVE IT WHEN A PLAN

COMES TOGETHER

imgflip.com

jay smith

CircleCityCon 2019



jay smith

CircleCityCon 2019



**WHAT HAPPENED**

**DID I DO SOMETHING WRONG**

**jay smith**

**CircleCityCon 2019**



A-HA

jay smith



CircleCityCon 2019

# DOUBT SETS IN

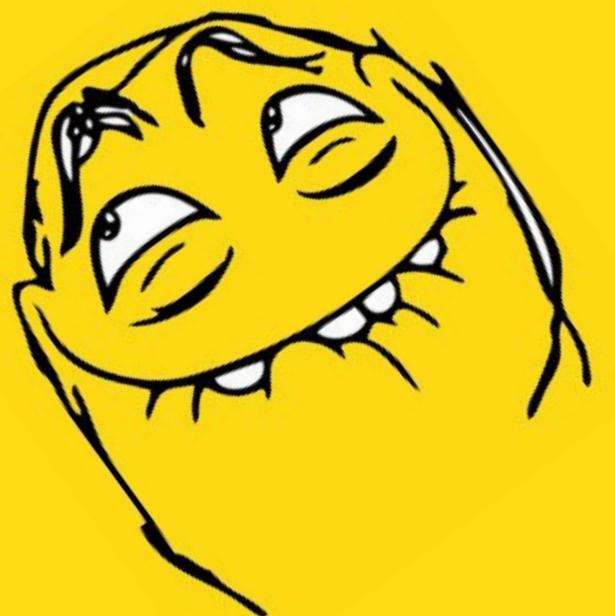
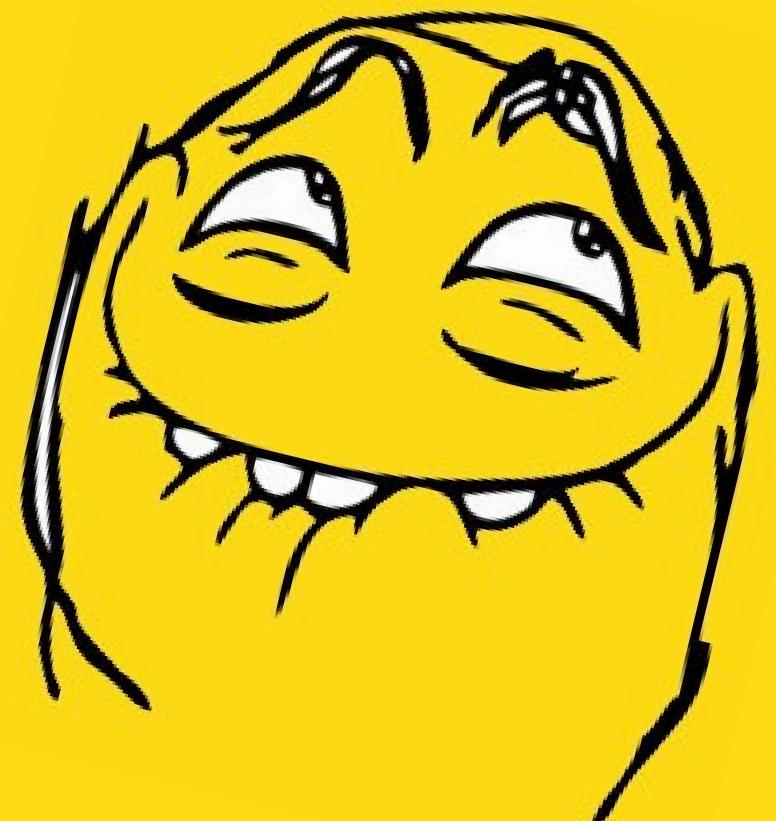
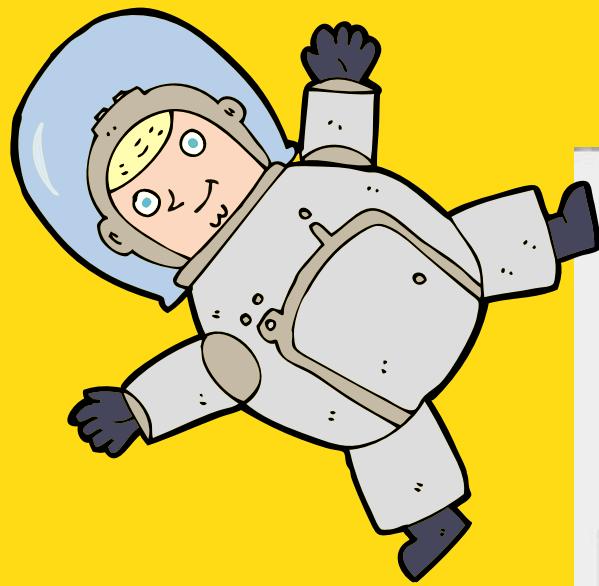
AM I WASTING MY  
TIME? SHOULD I JUST  
FOCUS ON MY OWN  
DEVELOPMENT?



jay smith

CircleCityCon 2019

# DAY BREAKS!



## CircleCityCon - CFP

May 31 - June 2, 2019 (Fri - Sun)

**Confirm Your Attendance**

Hi Jason,

Congratulations! Your proposal, "**How to reach and teach youth about Cybersecurity (if anybody will let you)**", has been accepted to **CircleCityCon 2019 - CFP!**

Your session details are now available to the public here. Please feel free to share this on social media.

<https://ccc2019cfp.busyconf.com/activities/5c3fe763ed8243598f0001f4>

Please click the "Confirm Your Attendance" button above or below to confirm your proposal.

If you are unable to accept, please notify the conference organizer at  
[speakers@circlecitycon.com](mailto:speakers@circlecitycon.com).

We look forward to seeing you.

Sincerely,  
CircleCityCon 2019 - CFP Organizing Committee

**jay smith**

**CircleCityCon 2019**

Wanna  
come talk to  
my class?  
We'd love to  
have you!



# DEFINITELY NOT CONSIDERING A FREE PENTEST



jay smith

CircleCityCon 2019



# CyberSecurity Careers Slide Presentation - 10 minutes



**Q&A - ask me anything**

**Privacy**

**Hacking in Movies/TV**

**Passwords**

**Stuxnet**

**Snowden**

**Wifi      Assange**

**Do I have to go to college?**

**Human Trafficking**

**Equifax**

**Facebook**



# NOW WHAT?



jay smith

CircleCityCon 2019



**'random quote  
about marketing'**

**- A thousand~~y~~ million~~y~~ people more successful than me**

jay smith

CircleCityCon 2019

# DENOUMENT



jay smith



secure the future



# DIGITAL DEFENSE BUREAU

# references

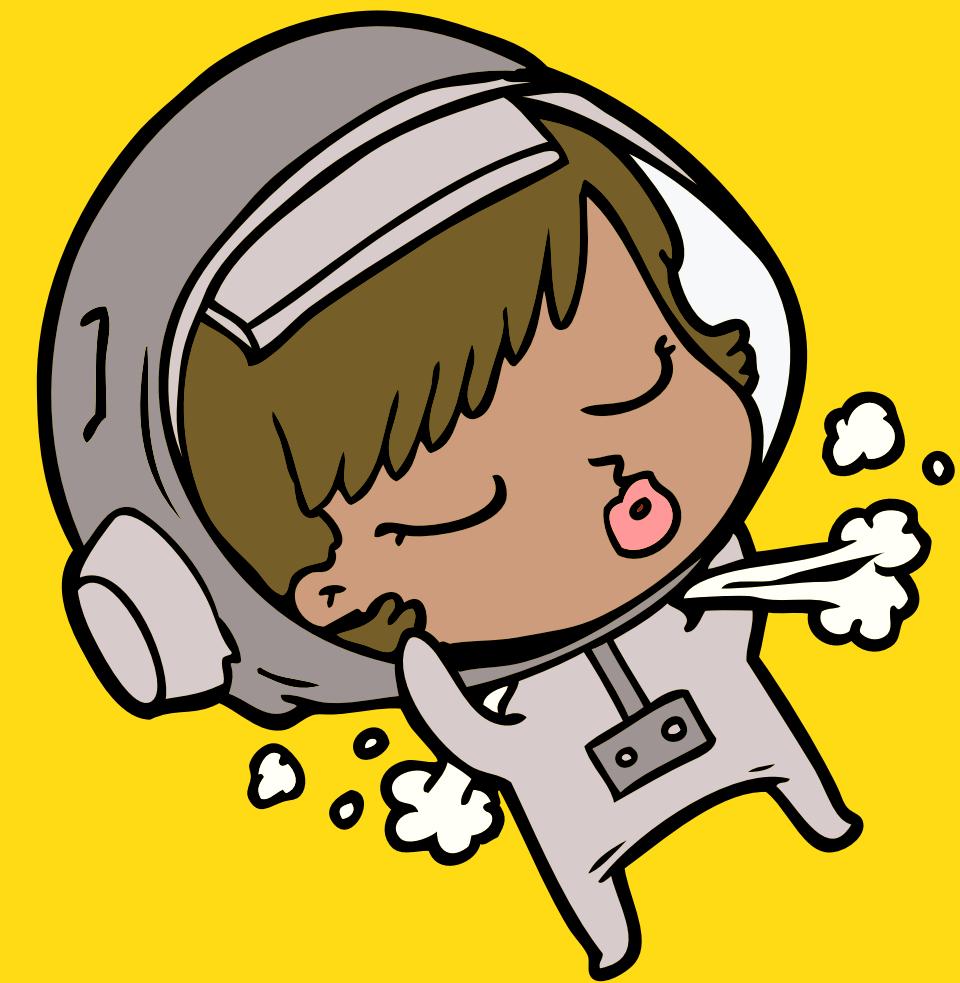
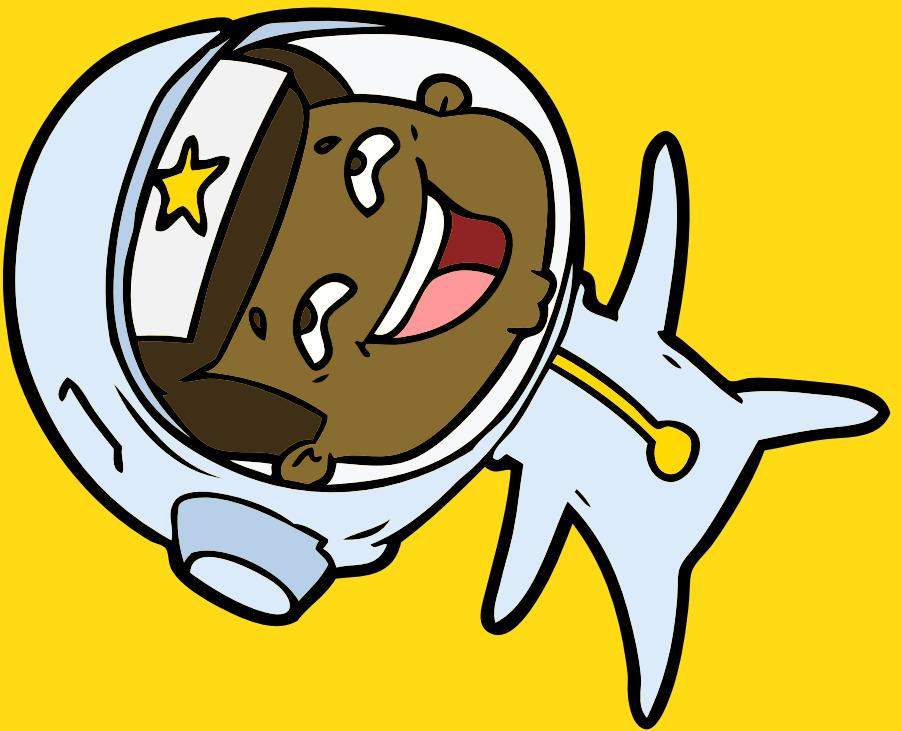
1. Knudsen E. I. (2004). Sensitive periods in the development of the brain and behavior. *J. Cogn. Neurosci.* 16, 1412–1425 10.1162/089892904230479
2. De Villers-Sidani E., Chang E. F., Bao S., Merzenich M. M. (2007). Critical period window for spectral tuning defined in the primary auditory cortex (A1) in the rat. *J. Neurosci.* 27, 180–189 10.1523/JNEUROSCI.3227-06.2007
3. De Villiers-Sidani E., Simpson K. L., Lu Y.-F., Lin R. C. S., Merzenich M. M. (2008). Manipulating critical period closure across different sectors of the primary auditory cortex. *Nat. Neurosci.* 11, 957–965 10.1038/nn.2144
4. Johnson J. S., Newport E. L. (1989). Critical period effects in second language learning: the influence of maturational state on the acquisition of English as a second language. *Cogn. Psychol.* 21, 60–99 10.1016/0010-0285(89)90003-0
5. Kuhl P. K. (2010). Brain mechanisms in early language acquisition. *Neuron* 67, 713–727 10.1016/j.neuron.2010.08.038
6. Penhune V. B. (2011). Sensitive periods in human development: evidence from musical training. *Cortex* 47, 1126–1137 10.1016/j.cortex.2011.05.010

PEOPLE BASE TACTICS  
IN BUSINESS & WAR ON  
THE STUFF SUN SAYS..."

- TODD TZU

...BUT SERIOUSLY HE JUST  
SITS AROUND, GETS HIGH  
AND SAYS GOOFY  
SHIT...MORONS

- TODD TZU



**THANK YOU!**