INCITING THE IMAGINATION

How we can help students see their future in cybersecurity

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Opinions are my own & do not represent my employer.

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THIS TALK IS FOR YOU IF:

- You are a mentor
- You lead a team
- You want to see how imagination can be applied to develop the next generation of cybersecurity professionals.

2018

Taft IT High School is launching what Cincinnati Public Schools believes is the first-in-the-country cybersecurity certificate program.

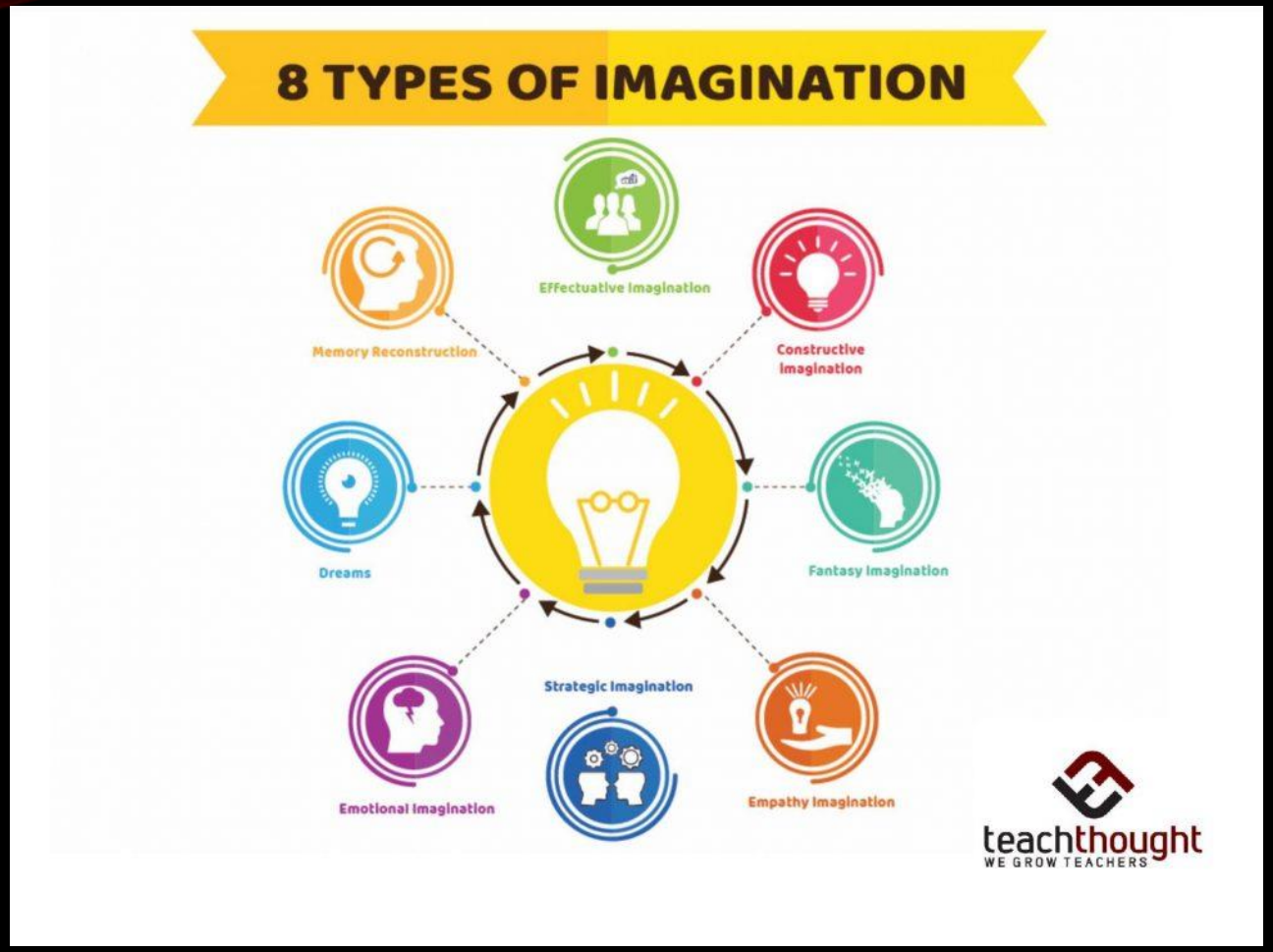
WVXU

https://bit.ly/2Z4BWSY

THIS IS NOT
OUR SECURITY OPERATIONS CENTER

What is Imagination?

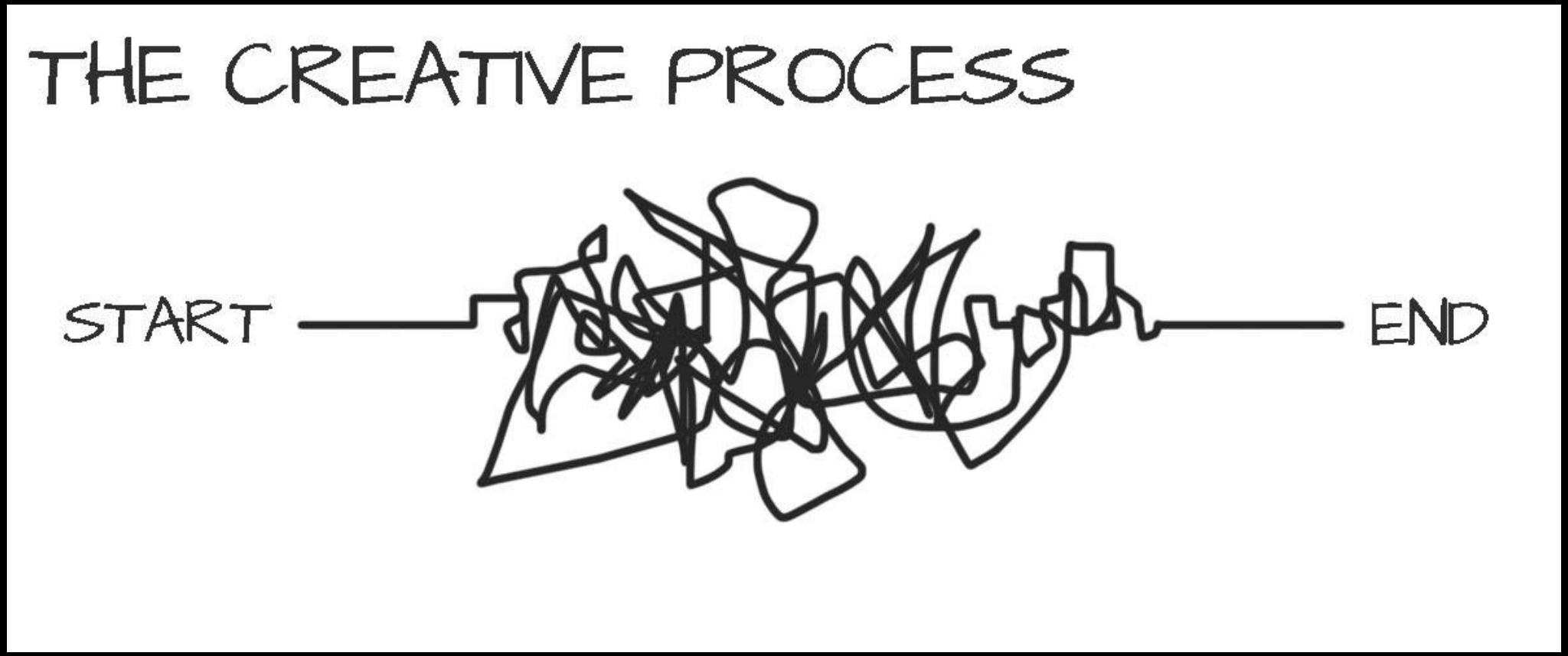
The ability to form mental sensory experiences that are not generated by perception. Also the process of making meaning, creating narratives or comparing concepts or objects.



https://teachthought.com/learning/8-types-of-imagination/

CREATIVTY
MEMORIES
THEORIZING
DREAMS
IMAGINATION
FANTASY
SOFT SKILLS
EMPATHY
STRATEGY

CREATIVITY



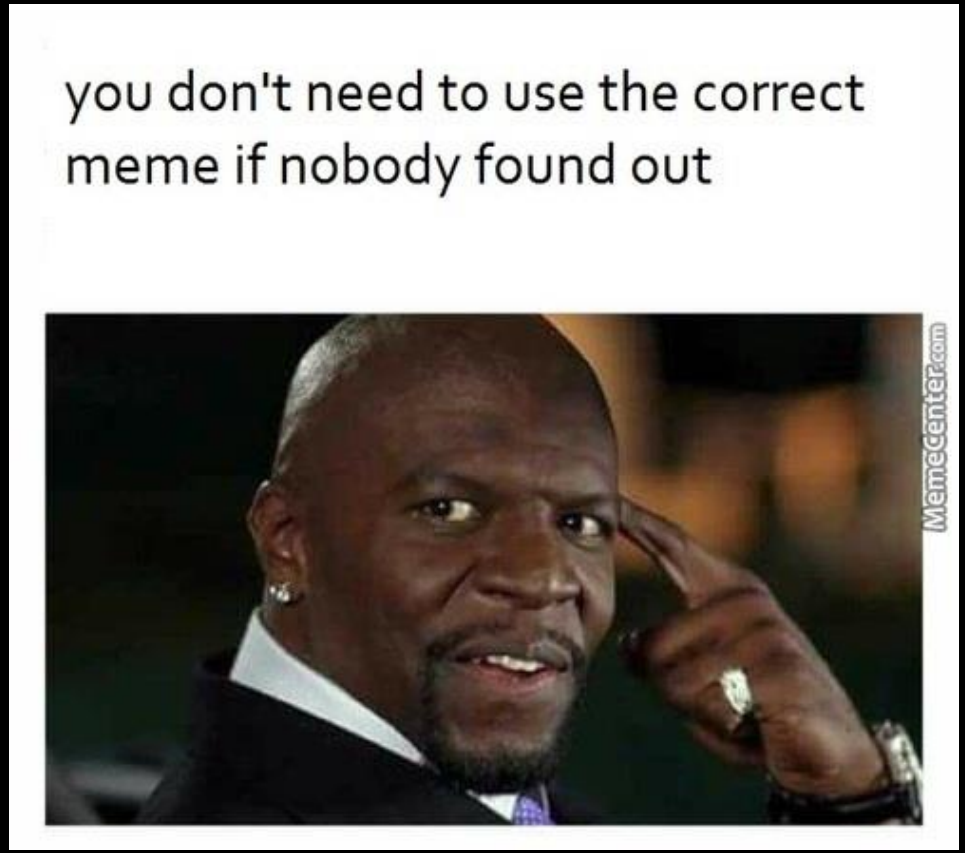
THEORIZING

I Have A Theory That
Donald Glover And
Childish Gambino Are
Secretly The
Same Person

FANTASY

EMPATHY

STRATEGY

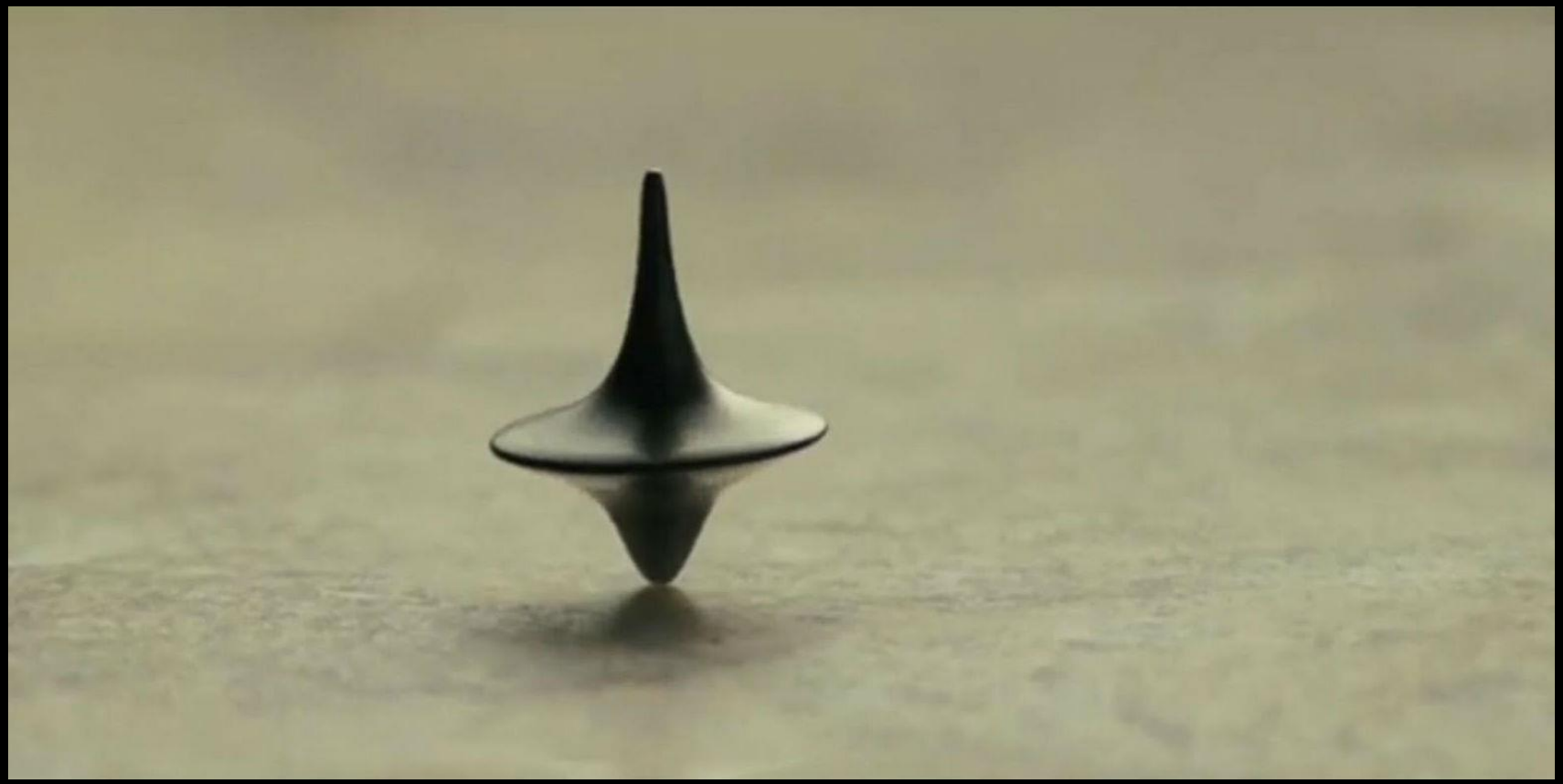

you don't need to use the correct meme if nobody found out
MemeCenter.com

SOFT SKILLS

OH NO, NOT MESSING
WITH YOU
WILDLIFE SAFETY
U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Leaving
NATIONAL PARK SERVICE
NBC MONTANA
REPORTER BAILS LIVE SHOT AFTER SEEING BISON
YELLOWSTONE NATIONAL PARK
13 ACTION NEWS

DREAMS



MEMORIES

FROM ACROSS ALL REGIONS OF THE RAP UNIVERSE COMES THE MOST DIVERSE ASSEMBLAGE OF MC'S EVER.
ALL OBEYING THEIR THIRST, TRUSTING THEIR INSTINCTS AND REPRESENTIN' DIFFERENT SOUNDS AND STYLES.
ALL COMING TOGETHER AS ONE UNIT TO SAVE THE HIP-HOP CULTURE. THAT ONE UNIT...
VOLTRON
DEFENDER OF THE UNIVERSE
Sprite
FAT JOE
GOODIE MOB
JURICA PAVICEVIC & JAZZY JAY
CONDITION
QUACK 90
SPRITE PRESENTS AN OBEY YOUR THIRST PRODUCTION A REFRESHING COMMERCIAL SERIES "VOLTRON"
FEATURING HIP HOP ARTISTS COMIN' TOGETHER AS ONE TO PUT A STOP TO THE PLAYER HATERS OF THE CULTURE
THE BEATS AND RHYMES CRISP AND CLEAN THIS ALL CONNECTION PREMIERING NOW! ON TV SCREENS ACROSS THE NATION PRODUCED BY SPRITE
R

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DREAMS
MEMORIES
IMAGINATION

IMAGINATION IN ACTION

- We encouraged job shadowing.
- We built individual education plans.
- We gave them many hands on activities.
- We showed them our phishing workflow and got them involved.
- We dialogued through the analytical process.
- We included them in our tabletop exercises.

MORE IDEAS:

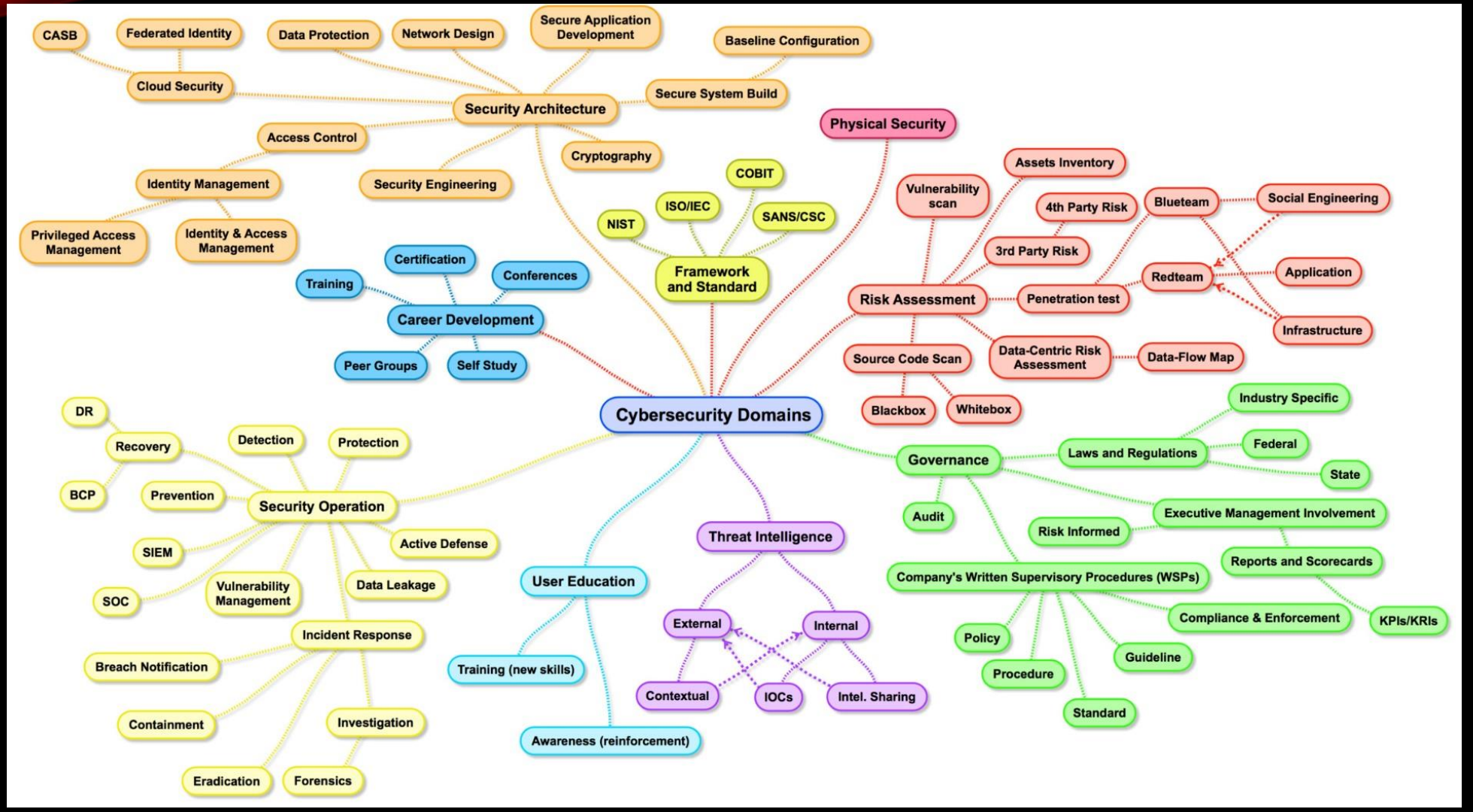
- Volunteer
- Attend Conferences
- Compete in CTFs
- Practice in Cyber ranges

Information security / Hacking for noobs

- https://github.com/tkisason/getting-started-in-infosec

Conference list 2020

- https://docs.google.com/spreadsheets/d/1SdJwWAwutrIKfh403c209hH81zB1e3gNS2StoBoqApU/htmlview#gid=0



https://www.linkedin.com/pulse/map-cybersecurity-domains-version-20-henry-jiang-ciso-cissp/

LEARN HOW THEY LEARN

- Shadowing
- Working with a mentor
- Building a lab
- Watching videos
- Taking something apart
- Studying for certifications
- Following a “To Learn List”

INCITE THE IMAGINATION

- Incite: To move to action.

“Students told us how much they like the program even though they didn’t even really know what they were getting into when it started off but now they are learning a lot more than they thought they could,”

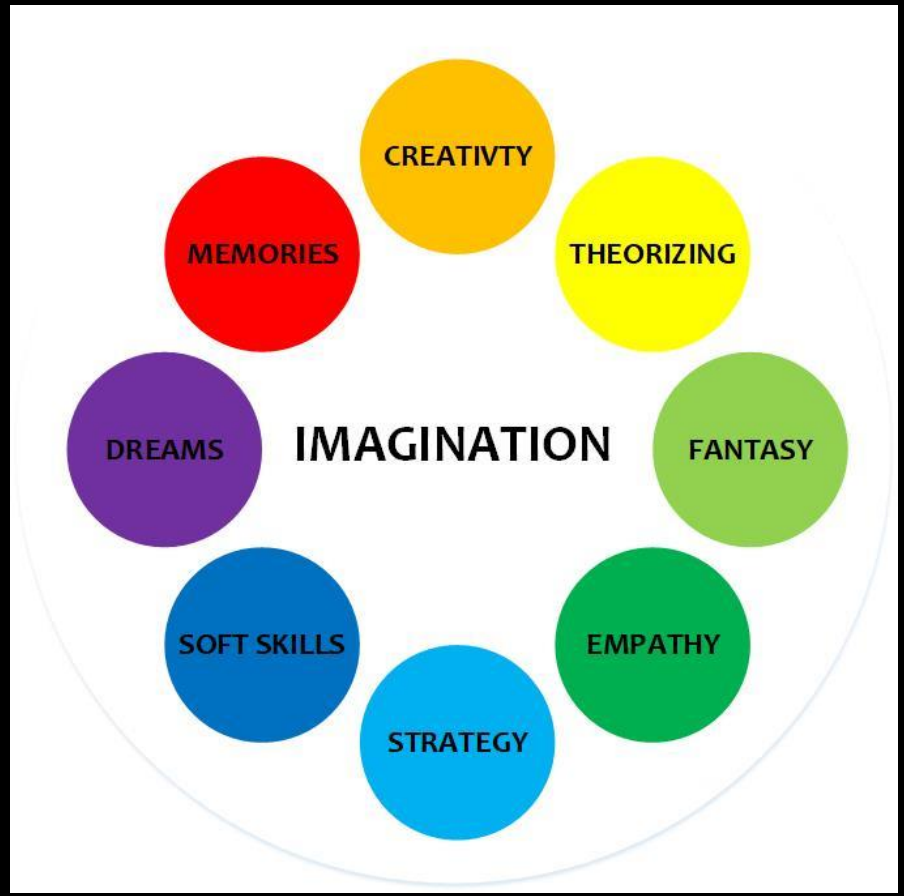
Journal-News

https://bit.ly/2zHh4Go

INCITE THE IMAGINATION OF THE NEXT GENERATION SO THAT THEY CAN SEE THEIR FUTURE DIFFERENTLY

HOW TO GROW IMAGINATION

- Do something boring
- Read fiction
- Watch fantasy movies
- Listen to music without lyrics
- Journal
- Have stimulating conversations
- Ask questions
- Vary routines
- Embrace chaos
- Be uncomfortable



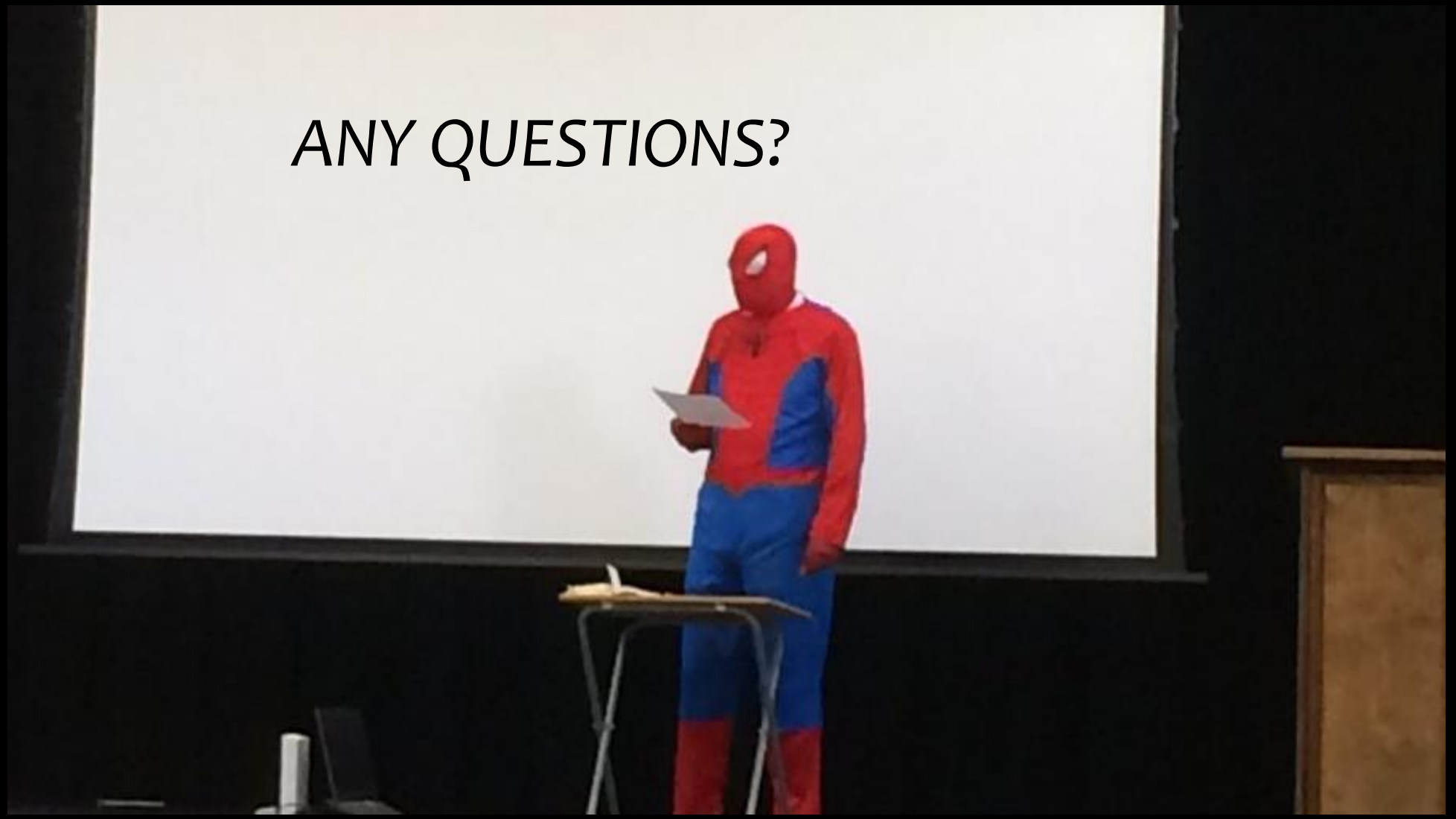
Minority representation within the cybersecurity field (26%) is slightly higher than the overall U.S. minority workforce (21%).

ISC2

https://bit.ly/2AtHnR2

REPRESENTATION

IMAGINE
AND
TAKE
ACTION


ANY QUESTIONS?

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