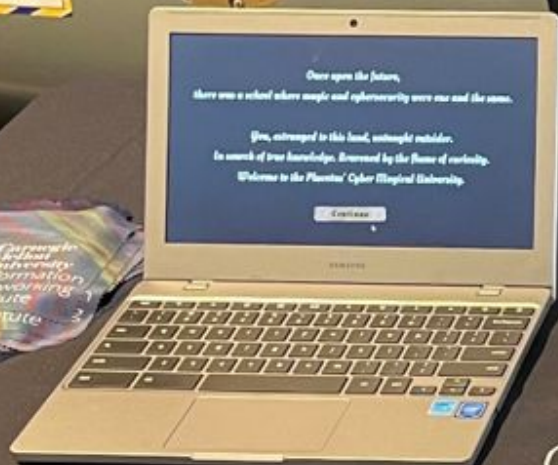




PLEASE
DO NOT TOUCH
THE TORPEDO!

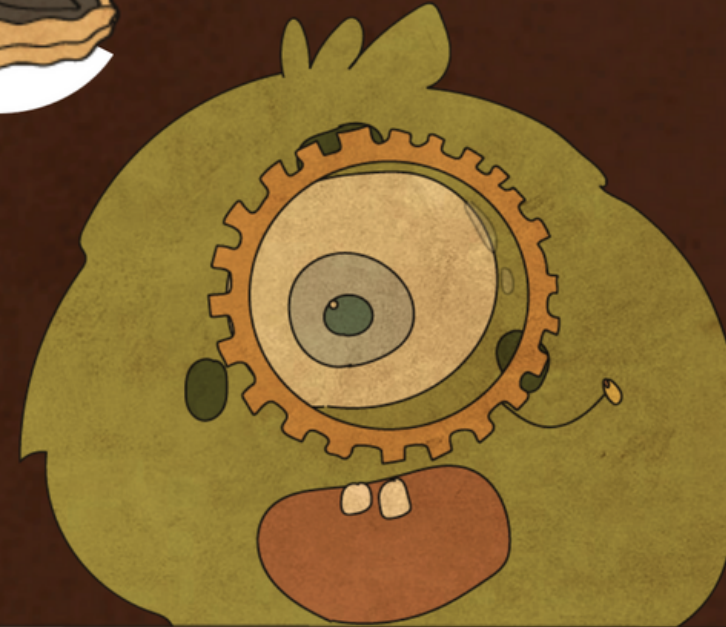
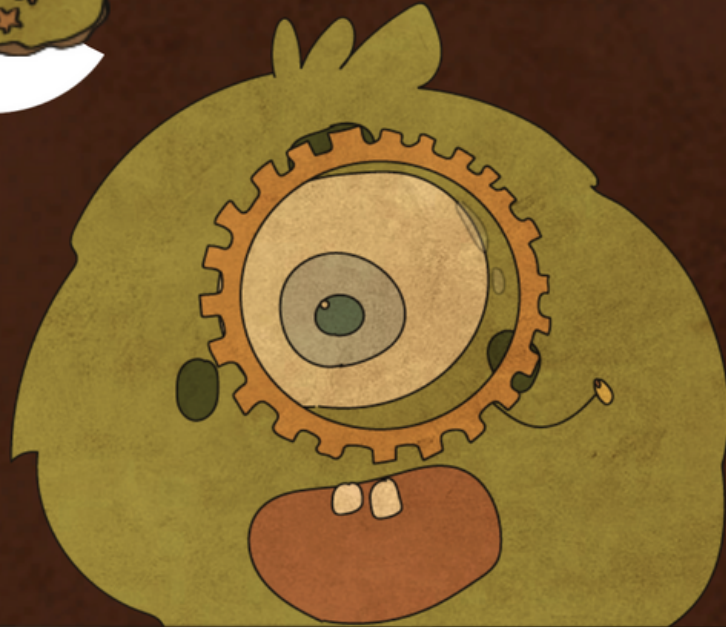




Time Left: 420 s

Served: 2

Exit Game



COMMAND

ARGUMENT 1

ARGUMENT 2

Transfer

Worm

Olive

Prepare

Cherry

Worm

Bake

Olive

Cherry



Cast Spell

Q/A

W/S

E/D

Enter



Professor Turing

Points: 0/30

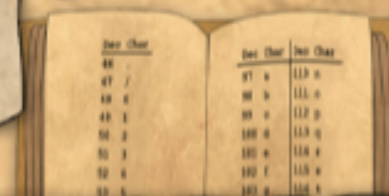
Under Construction



Brewing Potions

Points: 0/30

Bulletin Board



Treasure Hunting

Points: 0/30

Office Area

Cafeteria

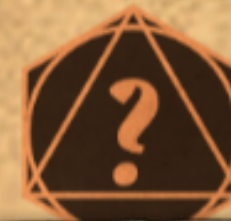


Feeding Creatures

Points: 17/30

Potion Room

Hall of Magic Source



Connecting Magic

Points: 0/30

Library

Plucotas' Cyber Magical University

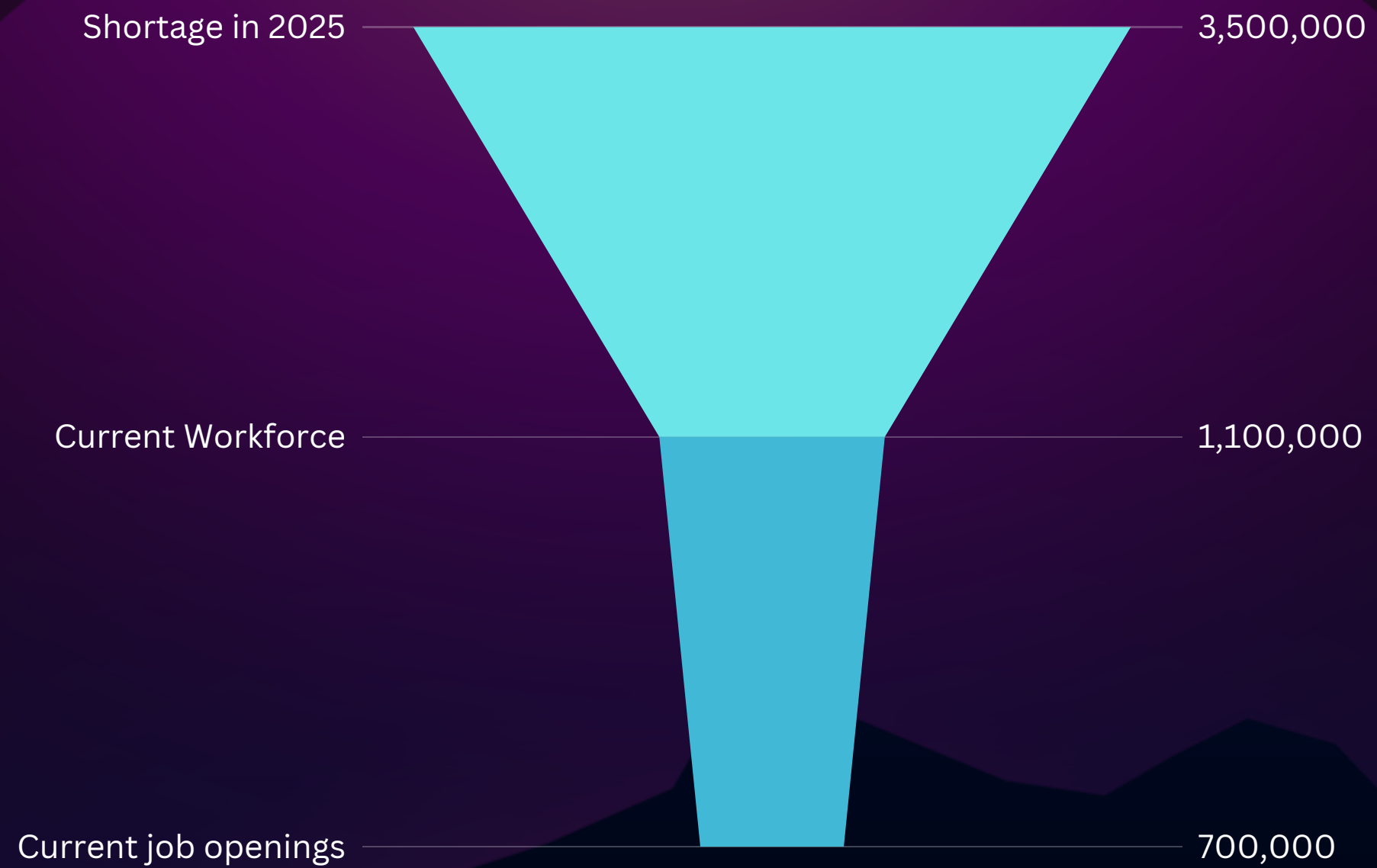


TEACHING CYBERSECURITY

GAMIFYING THE EDUCATION SYSTEM

Weijia Yan, Carnegie Mellon University

TALENT SHORTAGE



HOW DO WE
TEACH CYBER
AND RETAIN
TALENT?

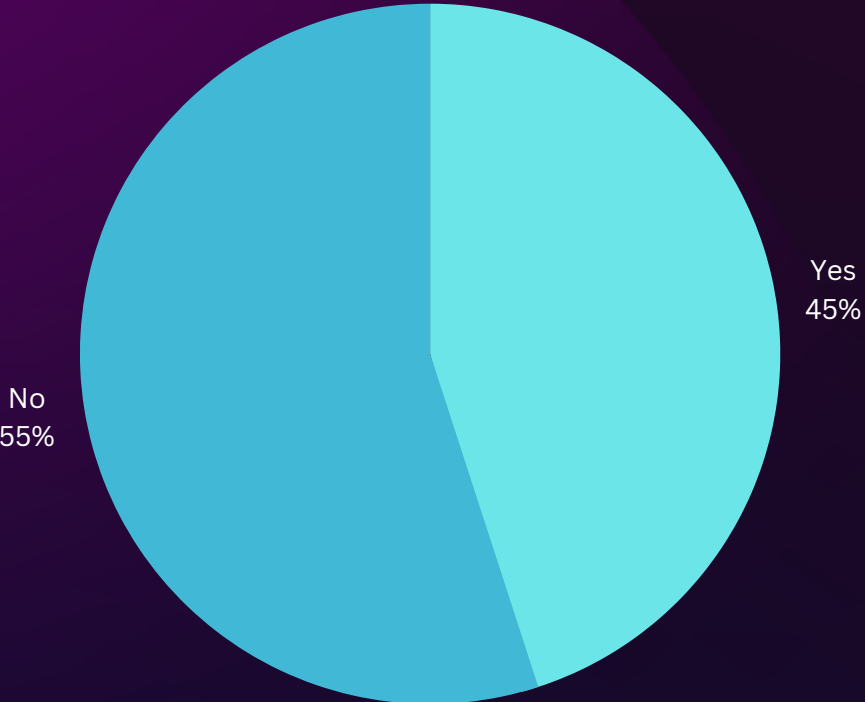




STUDENT'S PERSPECTIVE

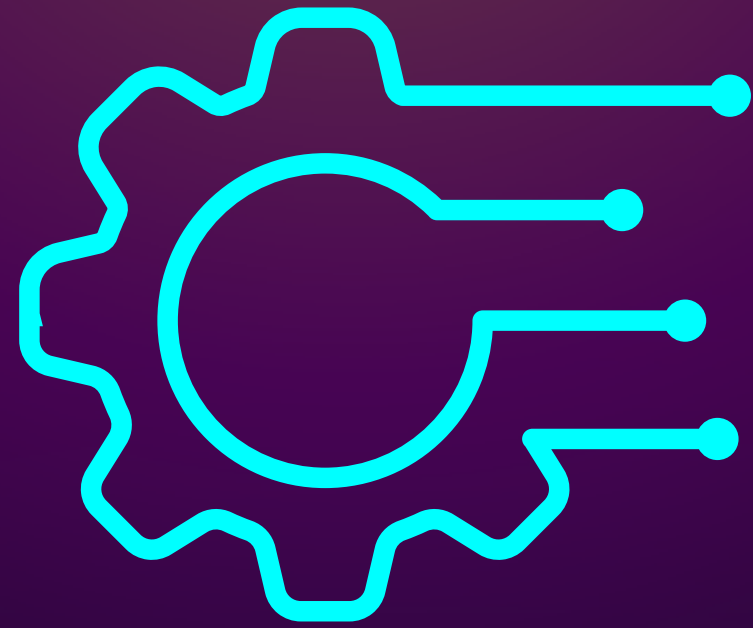
LIMITED EXPOSURE

K-12 Students learning security





ACADEMIA



SPECIALIZATIONS

OTHER STUDENTS





CTF ON GAMIFYING SECURITY



WHAT ARE CTFs?



Question

Mod 26



Tags: picoCTF 2021 Cryptography

AUTHOR: PANDU

Description

Cryptography can be easy, do you know what ROT13 is?

`cvpbPGS{arkg_gvzr_V'yy_ge1_2_ebhaqf_bs_ebg13_uJdSftmh}`

101,655 solves / 104,271 users attempted (97%)

picoCTF{FLAG}

Flag

Google

what is ROT13



All

Images

Videos

News

Shopping

More

Tools

About 148,000 results (0.41 seconds)

[https://en.wikipedia.org](https://en.wikipedia.org/wiki/ROT13) > wiki > ROT13

ROT13 - Wikipedia ✓

ROT13 is a simple letter substitution cipher that replaces a letter with the 13th letter after it in the alphabet. ROT13 is a special case of the Caesar ...

[Description](#) · [Usage](#) · [Letter games and net culture](#) · [Implementation](#)



VIEW Ciphertext ▾

```
cvpbPGS{arkg_gvzr_V'yy_gel_2_ebhaqf_bs_ebg13_uJdSftmh}
```

ENCODE DECODE

ROT13 ▾

VARIANT

- ROT5 (0-9)
- ROT13 (A-Z, a-z)
- ROT18 (0-9, A-Z, a-z)
- ROT47 (!~)

→ Decoded 54 chars

VIEW Plaintext ▾

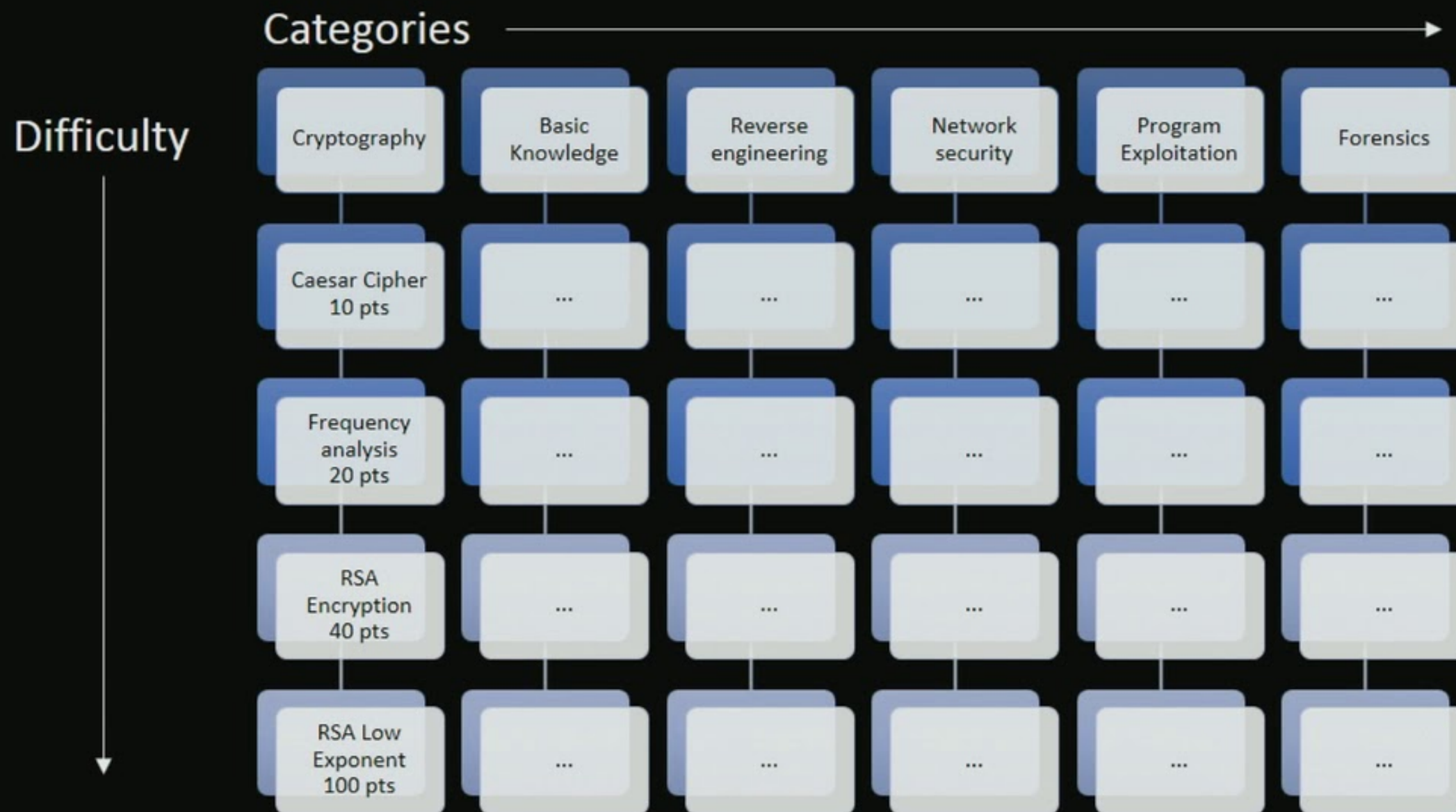
```
picoCTF{next_time_I'll_try_2_rounds_of_rot13_hWqFsgzu}
```



Flag



Jeopardy-Style CTF



Credit: David Brumley on How the Best Hackers Learn Their Craft



CTF IMPLEMENTATION





CTFS IN CLASSROOM



CTFS IN COMPETITIONS



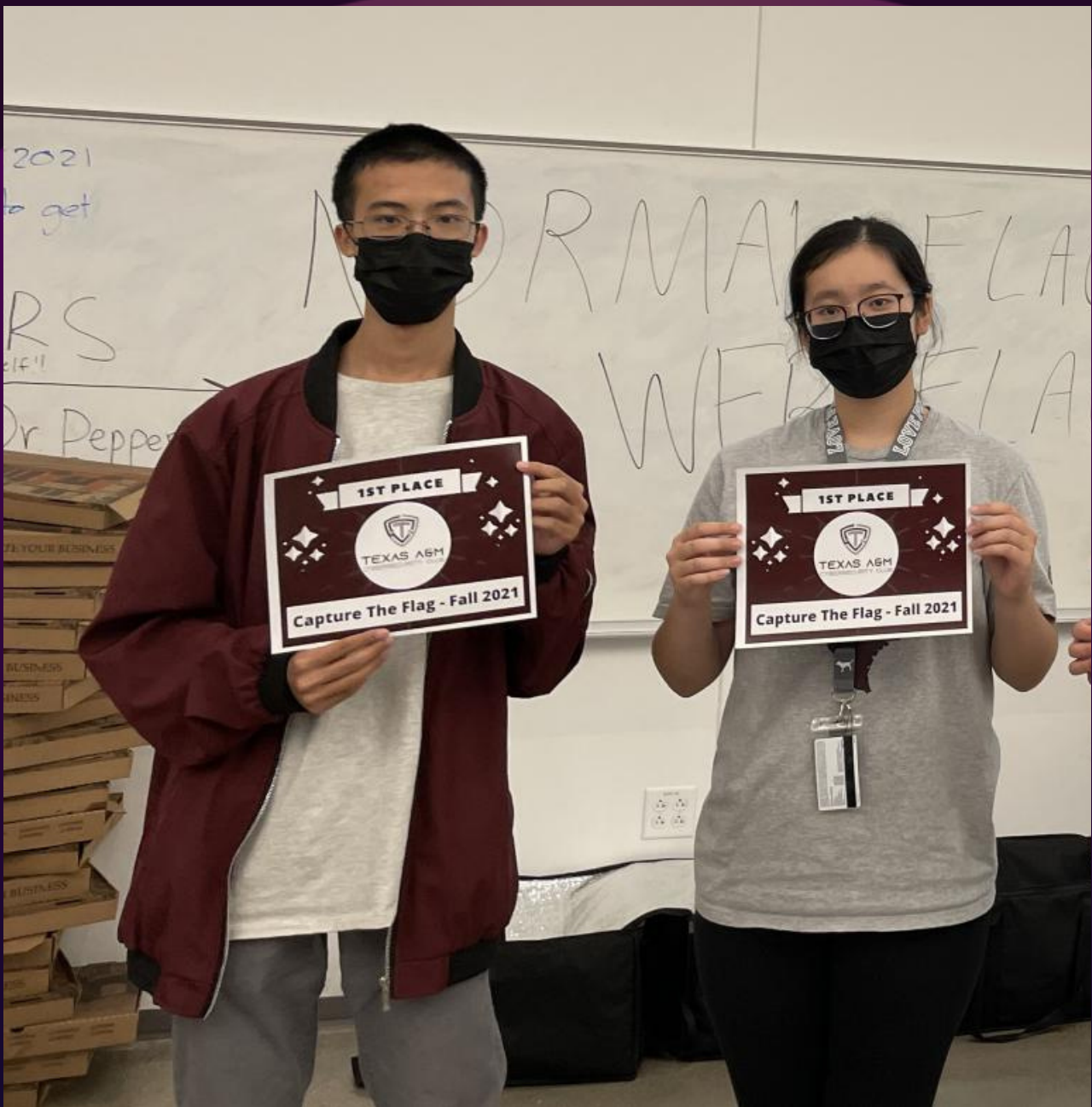
CTF IN COMMUNITIES

Play with clubs, classmates, friends...




TEXAS A&M
CYBERSECURITY CLUB





USE CASES

Teachers

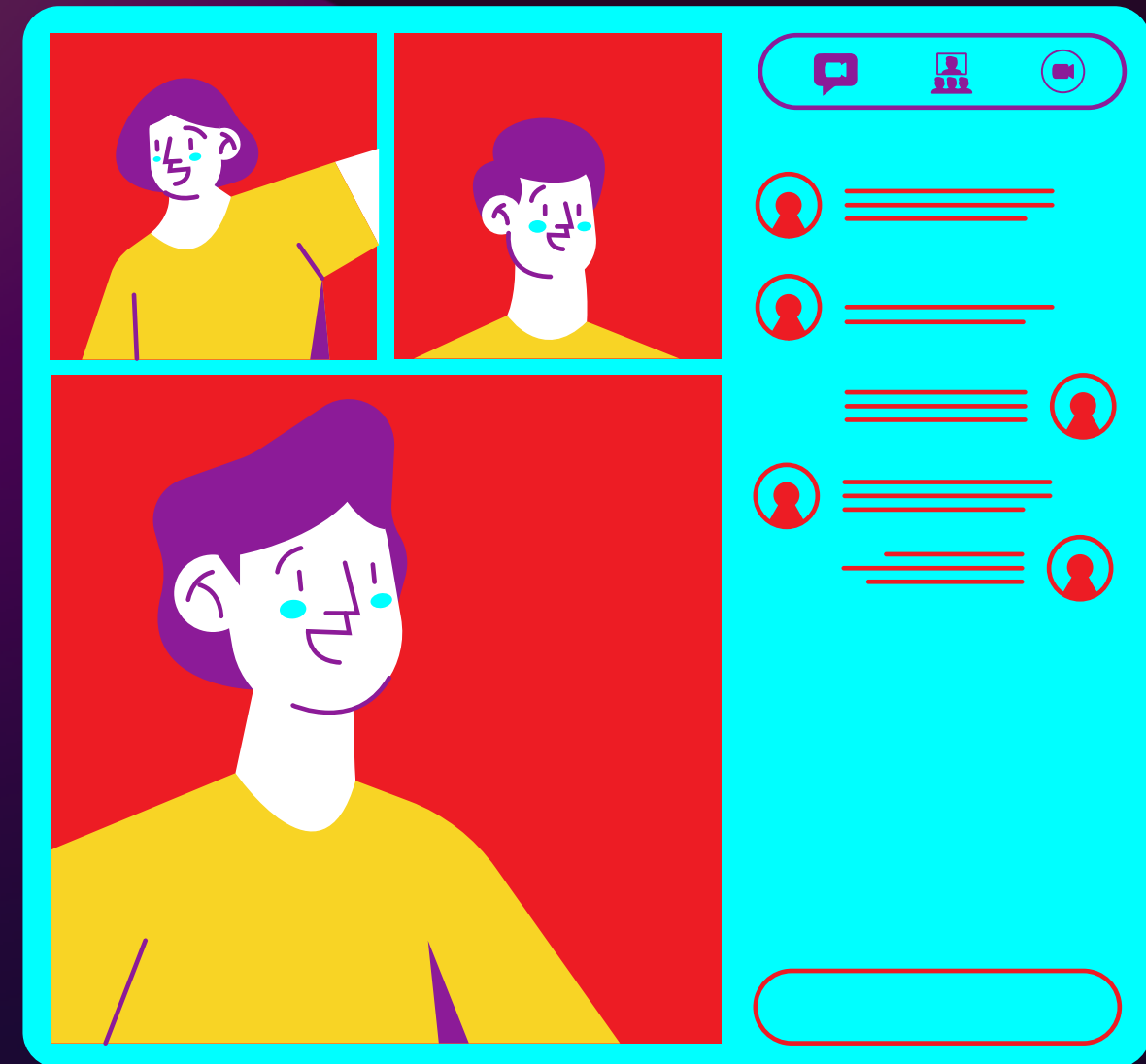
High School Students

Parents

Clubs

Career Pivot

Everyone who wants to get into cyber!





YOUR EXPERIENCE WITH CTFS





PLAY PICO TOGETHER!



pico Game



picoCTF.org



LINKS:

picoCTF: <https://picoctf.org/>

pico Game: <https://game-cdn.picoctf.org/2022/latest/WebGL/WebGL/index.html>

External Resources: <https://picoctf.org/resources.html>





SHARE YOUR RESOURCES





NEXT STEPS



COMMUNITY

332,500 Users

Africa, Japan, Canada, and the US

Largest in the World!

picoCTF



THANK YOU

