

Roll Call: In the chat please share where you are from, what you teach, and who you teach.

Check in: Where do you think would be the most fun spot to have a treasure hunt with all your friends? And why?

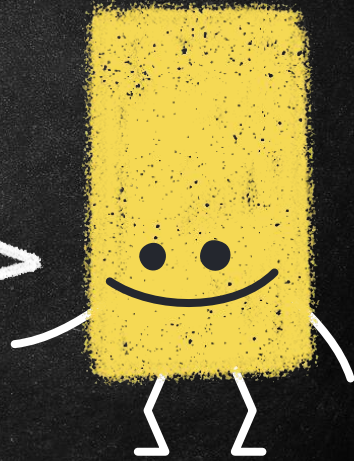
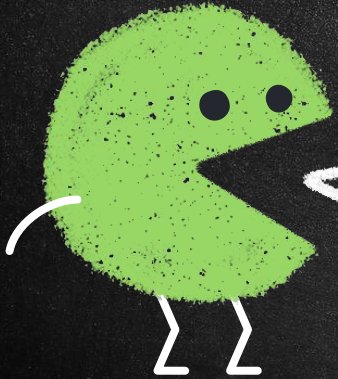
CS+X: Integrating CS Into Any Subject

Equity In Action Summit

bit.ly/CSXtheWorld



CS+X:
USING COMPUTER
SCIENCE TO CONNECT
YOUR CLASSROOM TO
THE(IR) WORLD



@drabigailjoseph #CSEquityInAction



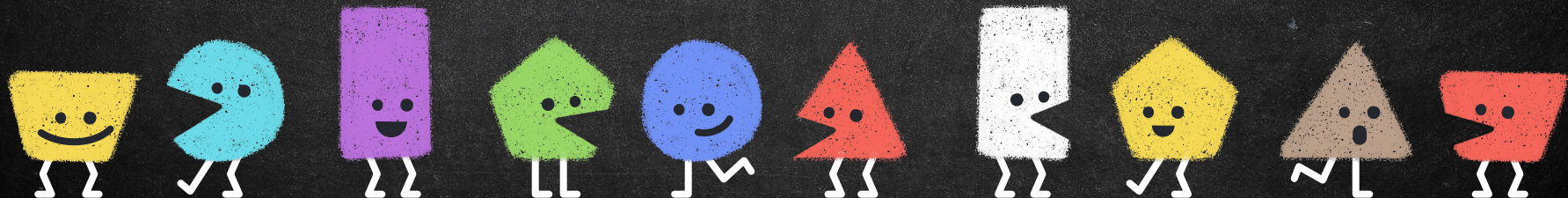
DR. ABIGAIL JOSEPH

Director of Learning,
Innovation, and Design

The Harker School
San Jose, CA

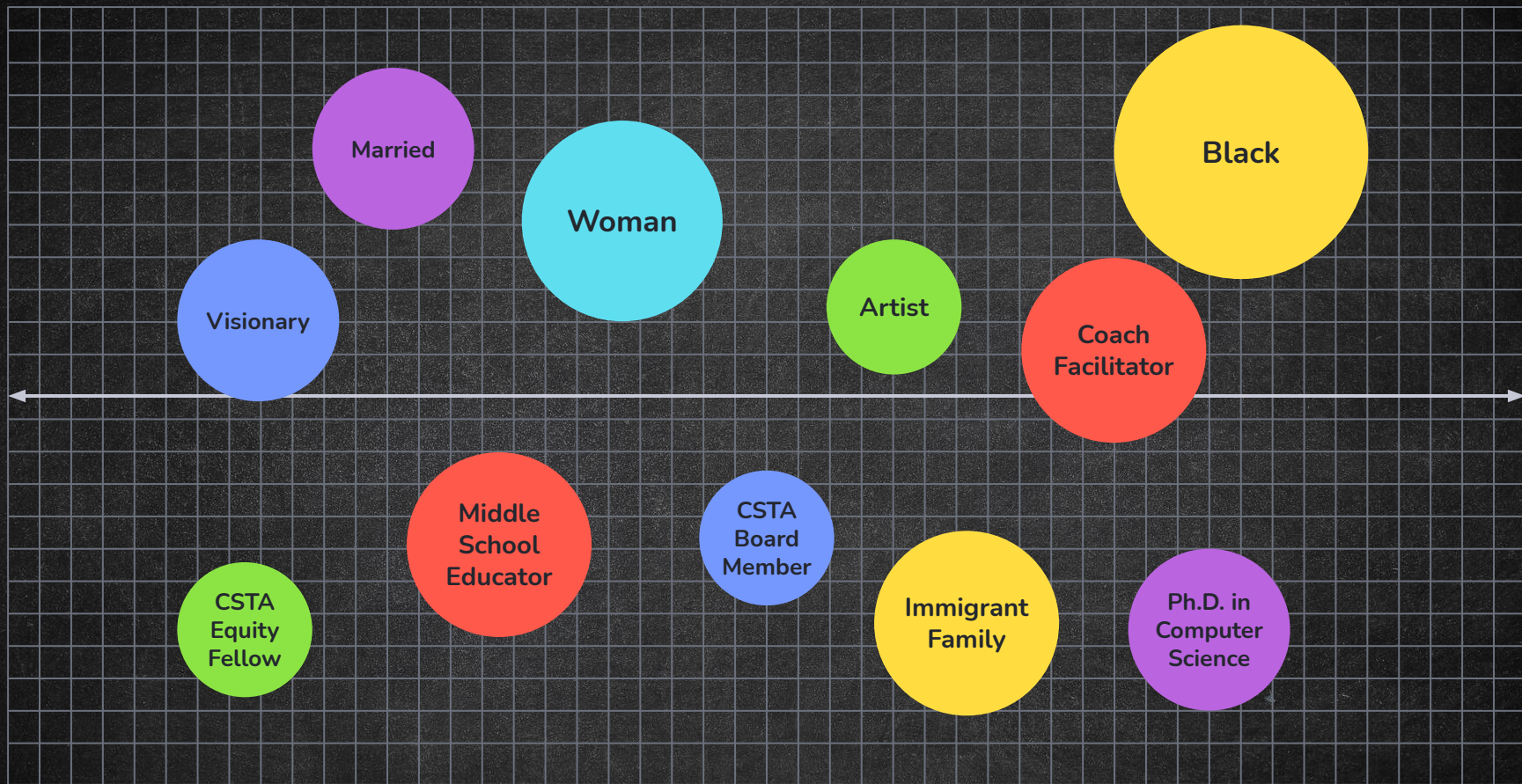
Educator with Ideas

@drabigailjoseph
@edstoria



MY POSITIONALITY

4





HOW DO YOU IDENTIFY?

Share any aspects of your identity you are willing to share



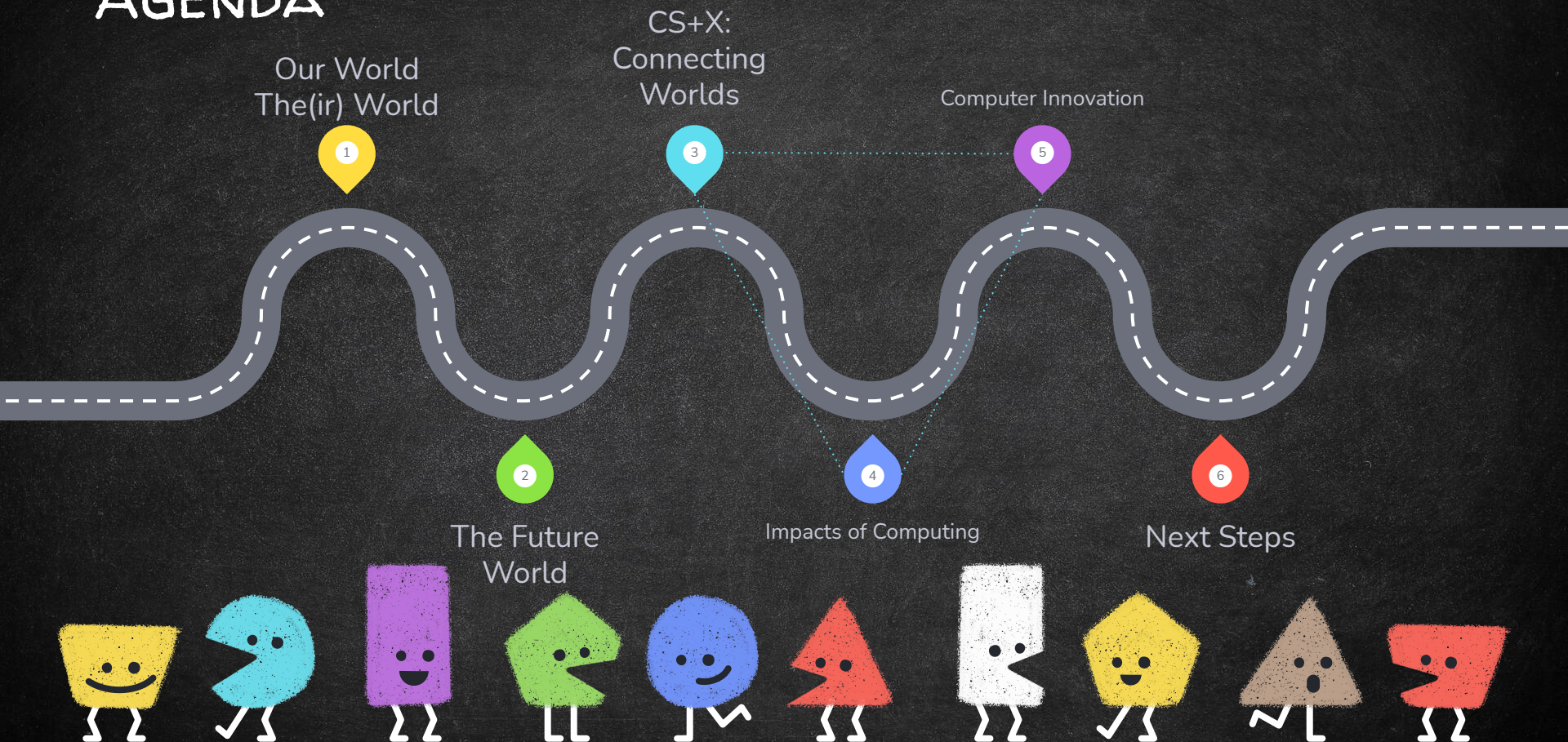


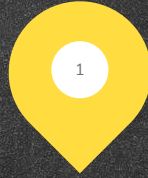
HOW DO OTHERS IDENTIFY YOU?

Share any aspects of your identity you are willing to share



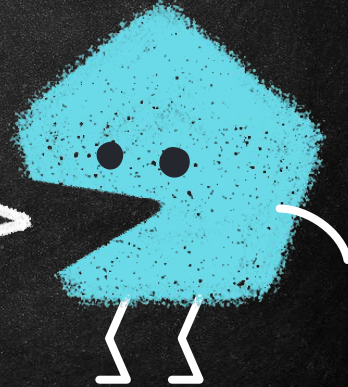
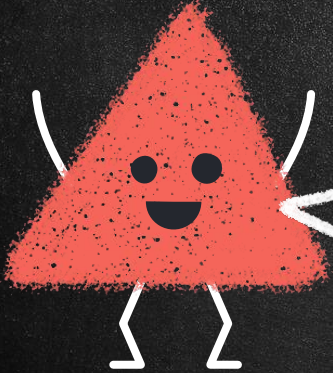
AGENDA



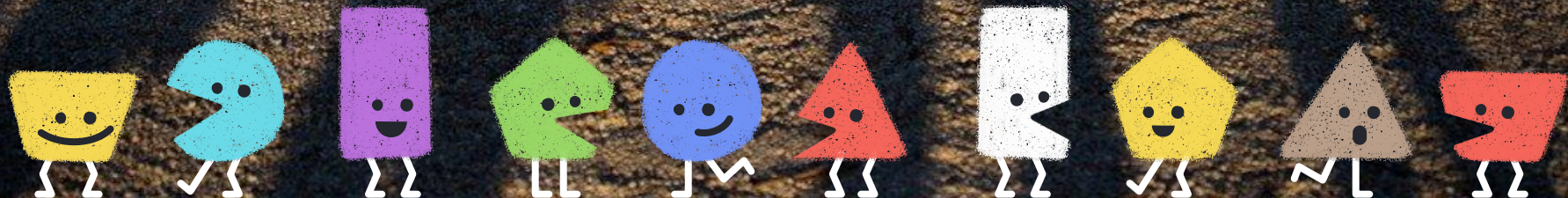


OUR WORLD THE(IR) WORLD

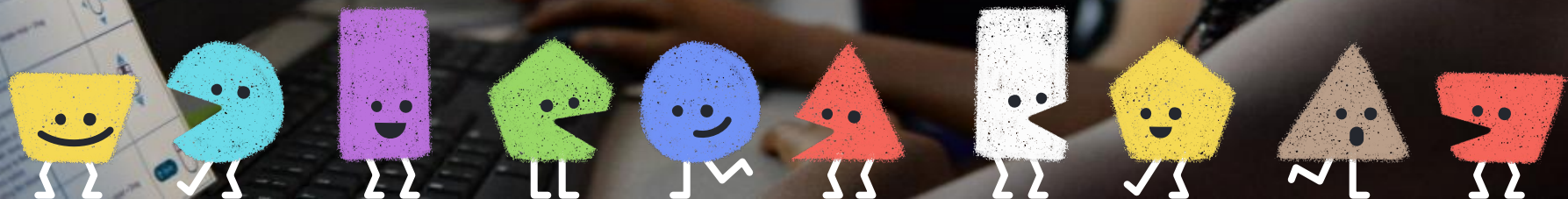
Are they the same or different?

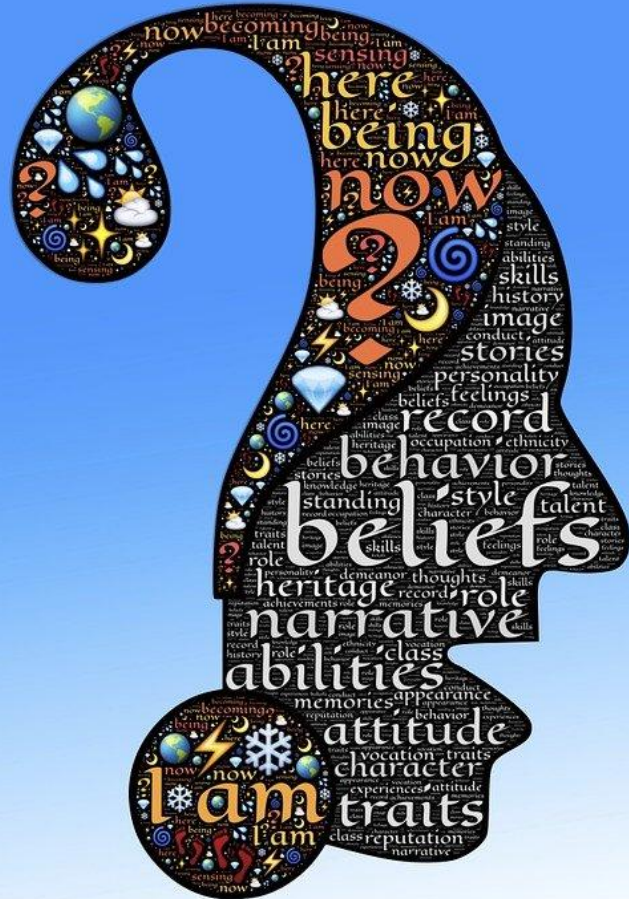


WHAT MAKES AN EDUCATOR AND EDUCATOR?



WHAT MAKES A STUDENT A STUDENT?





THE ORIGINAL "BIG 8" SOCIAL IDENTIFIERS

Ability

(Mental and/or physical)

Age

Ethnicity

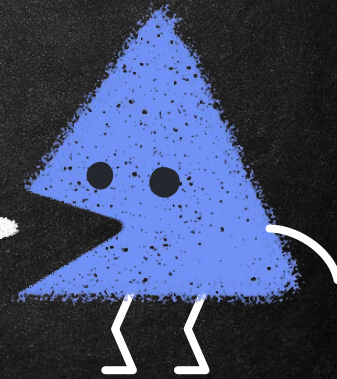
Gender

Race

Religion

Sexual Orientation

Socio-Economic Status/Class



@drabigailjoseph
#CSEquityInAction

OUR WORLD / THEIR WORLD

Educators



Students



OUR WORLD / THEIR WORLD

Educators



Students



OUR WORLD / THEIR WORLD

Educators



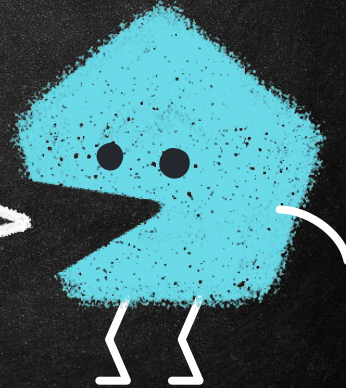
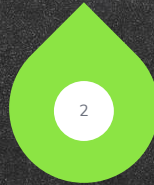
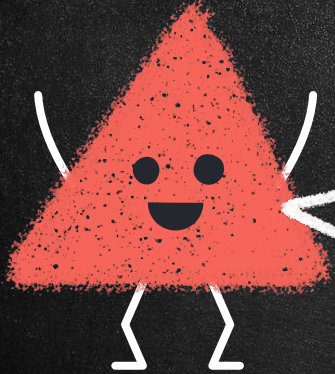
Students



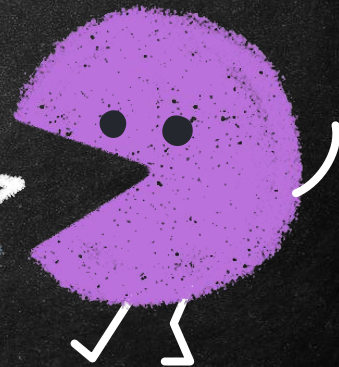


THE FUTURE WORLD

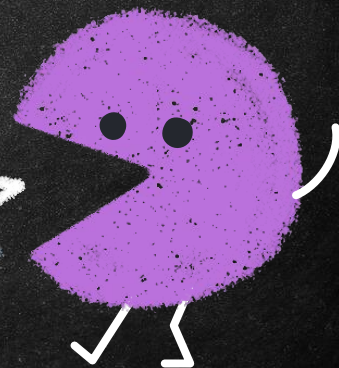
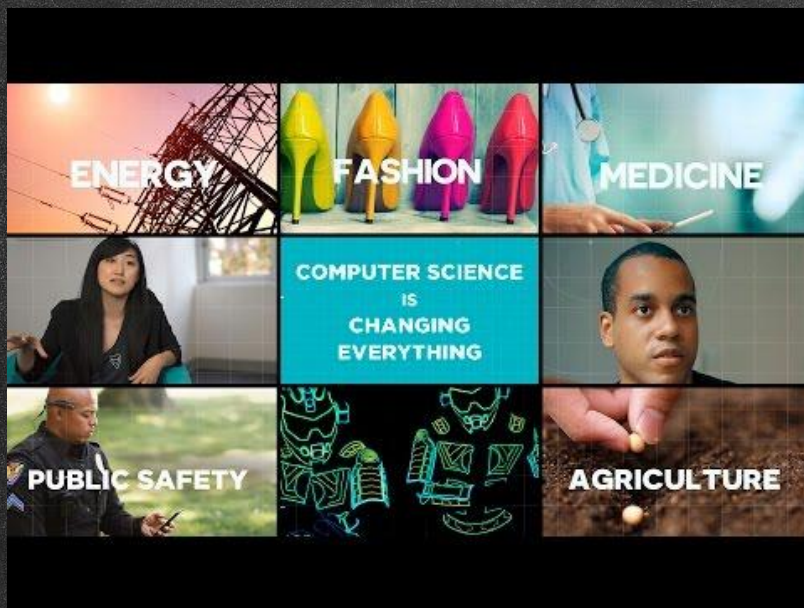
What will it look like?



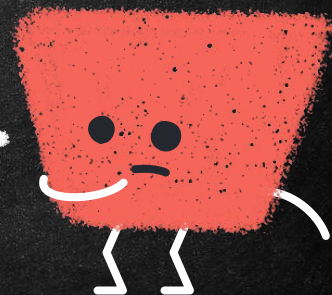
WHAT DO YOU SEE, THINK,
AND WONDER?



HOW IS CS CHANGING THE WORLD?



IS THIS GOOD DESIGN?

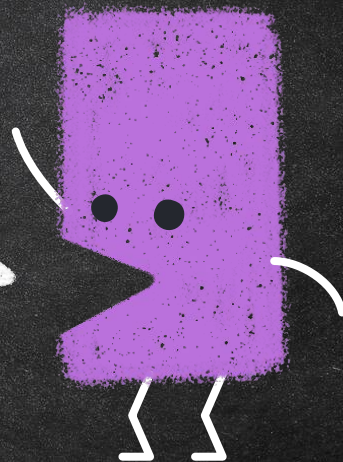


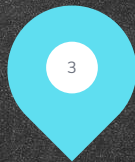
@drabigailjoseph
#CSEquityInAction

“

Algorithmic bias, like human bias, results in unfairness. However, algorithms, like viruses, can spread bias on a massive scale at a rapid pace. Algorithmic bias can also lead to exclusionary experiences and discriminatory practices.

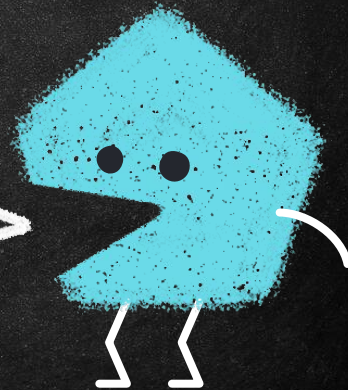
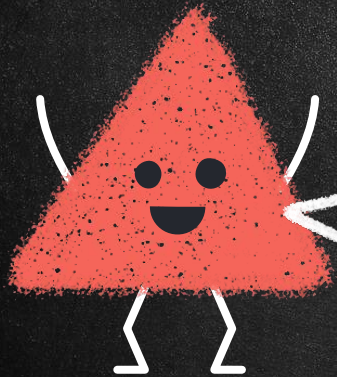
Joy Buolamwini





CS+X: Connecting Worlds

How do we begin to connect the worlds?



Got CS?



CS + HISTORY

explore places beyond
your imagination.

#VR #AR

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

Got CS?



CS + PHYSICAL EDUCATION

understand the body
in motion

#motioncapture #sports

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

CS + ART

create worlds beyond
your imagination

#visualeffects #cgi

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

Got CS?



Got CS?



CS + WORLD LANGUAGES

connect with humans
everywhere

#language #translate

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

Got CS?



CS + MATH

analyze, visualize, and
understand the world's
complexities

#fractals #visualization

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

CS + ENGLISH

organize thoughts and
ideas

#writingtools #blogging

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

Got CS?



CS+X Twitter Campaign
CS Ed Week 2019

Got CS?



CS + SCIENCE

interpret and question
the world in new ways

#crispr #ScienceSimulations

#CSTAEquityFellow #CSEdWeek #CSplusX

@drabigailjoseph

@drabigailjoseph #CSEquityInAction

Computer Science is... Twitter Campaign

CS Ed Week 2019

22

Computer Science is
a tool for solving problems
uncovering patterns
predicting the future
creative
access to power

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
a tool for solving problems
uncovering patterns
predicting the future
creative
access to power

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
a tool for solving problems
uncovering patterns
predicting the future
creative
access to power

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
a tool for solving problems
uncovering patterns
predicting the future
creative
access to power

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
cooperative learning
access to jobs
social justice for communities
designing the world
relevant to all industries

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
cooperative learning
access to jobs
social justice for communities
designing the world
relevant to all industries

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
cooperative learning
access to jobs
social justice for communities
designing the world
relevant to all industries

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
cooperative learning
access to jobs
social justice for communities
designing the world
relevant to all industries

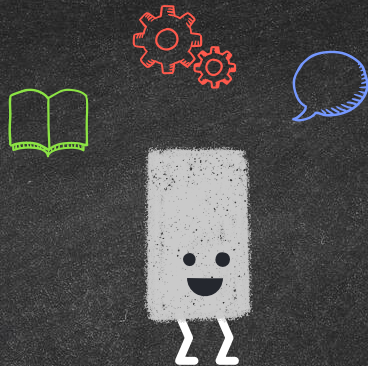
#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph

Computer Science is
cooperative learning
access to jobs
social justice for communities
designing the world
relevant to all industries

#CSTAEquityFellow #CSEquity #CSEdWeek

@drabigailjoseph



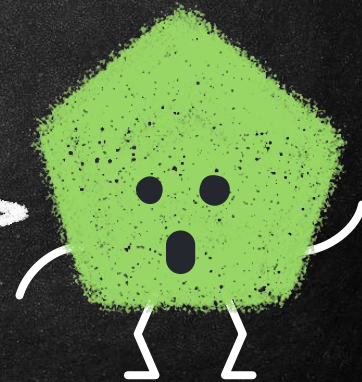
IMPACTS OF COMPUTING

(Culture - Social Interactions - Safety Law & Ethics)

Computer Science Concepts at Play

Computing Systems ☆ Networks and the Internet ☆ Data and Analysis ☆ Algorithms and Programming ☆ Impacts of Computing

WHAT DOES THE SIGN SAY?

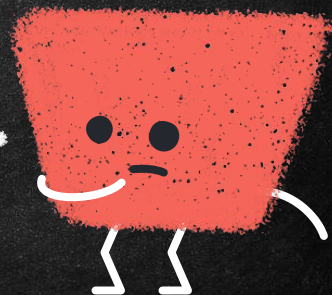


@drabigailjoseph
#EquityInAction

HOW DOES THIS TECHNOLOGY HELP US INTERACT?



N&F



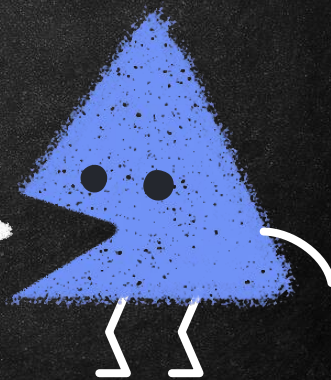
@drabigailjoseph
#EquityInAction

SELF-DRIVING CARS

What do you
see?

What does that
make you
think?

What do you
wonder?

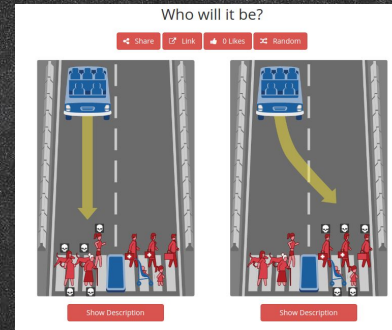


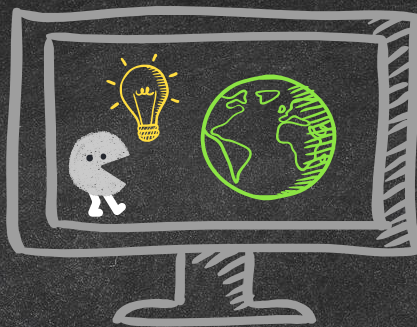
@drabigailjoseph
#EquityInAction

THE MIT MORAL MACHINE

How might
self-driving cars
affect you and your
community?

What do you value?





CS+X

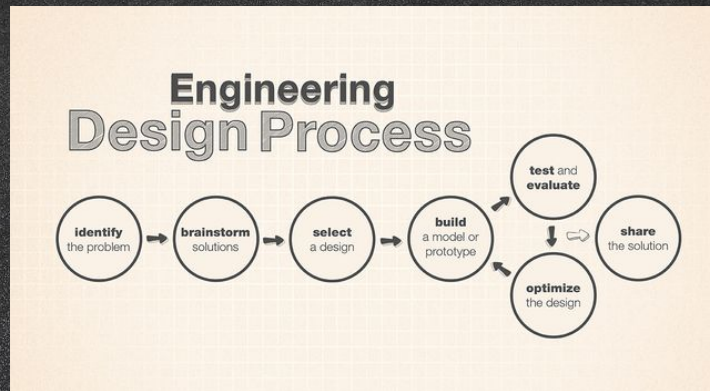
Computer Science Practices at Play

Fostering an Inclusive Computing ★ Collaborating Around Computing ★ Recognizing and Defining Computational Problems ★ Developing and Using Abstractions ★ Creating Computational Artifacts
★ Testing and Refining Computational Artifacts ★ Communicating About Computing

LIGHT IT UP! E-TEXTILES

How would you incorporate lights into your life?

- ➔ Draw
- ➔ Prototype
- ➔ Program
 - Micro:bit
 - Circuit Playground
 - Makey Makey
 - Little Bits

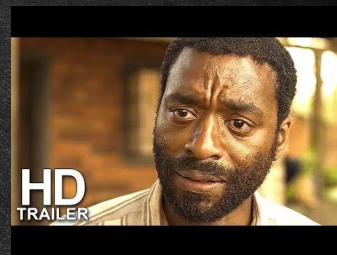
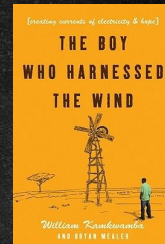
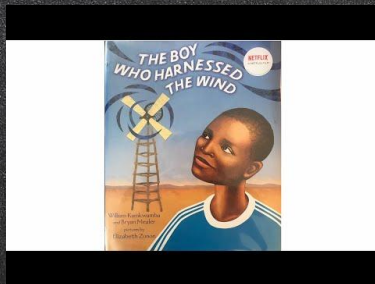
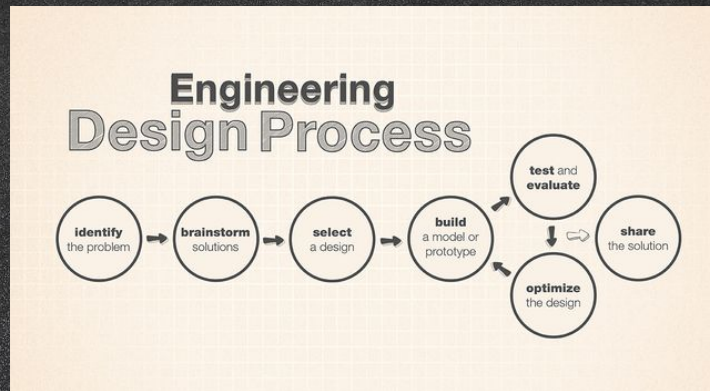


@drabigailjoseph
#EquityInAction

COMMUNITY INNOVATION

How might you design technology to help your community?

- Draw
- Prototype
- Program
 - Micro:bit
 - Circuit Playground
 - Makey Makey
 - Little Bits

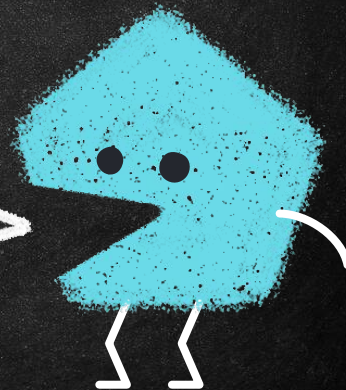
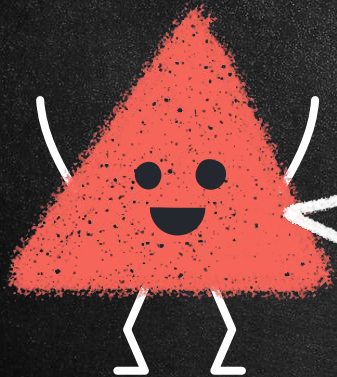
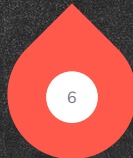


@drabigailjoseph
#EquityInAction



Next Steps

What action are you will to commit to take?



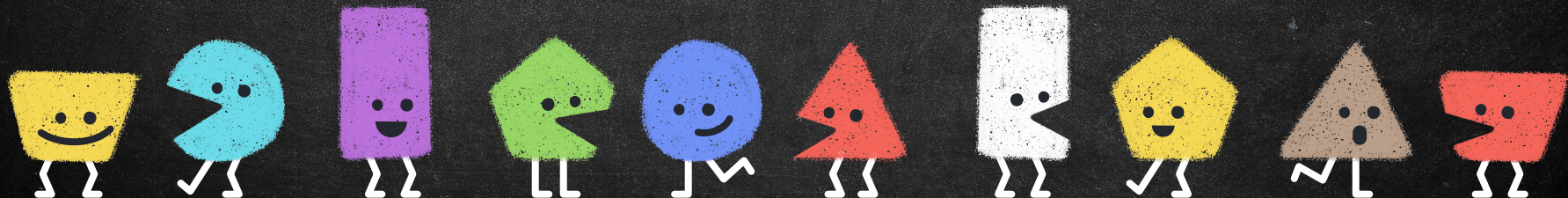
bit.ly/CSXtheWorld

LET'S CONTINUE THE CONVERSATION

Any questions?

@drabigailjoseph

dr.abigailjoseph@gmail.com



CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by [SlidesCarnival](#)
- Photographs by [Unsplash](#)

