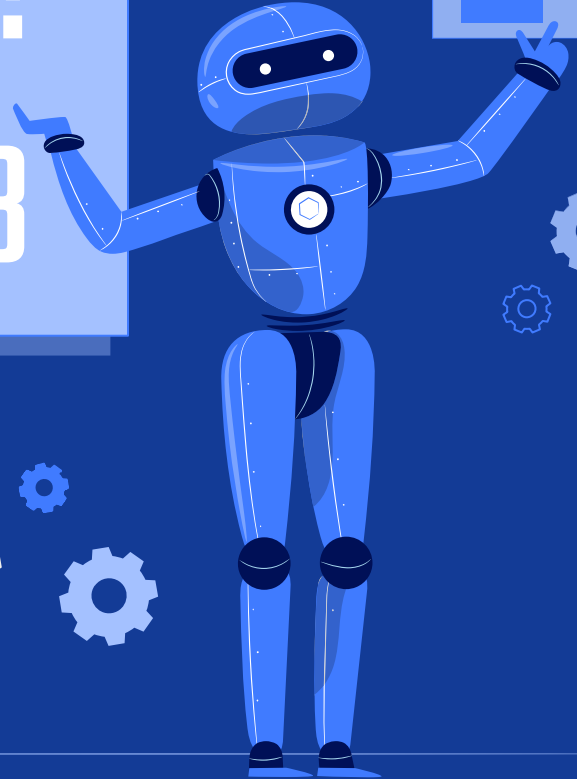


# WELCOME!

# 4-H STEM CLUB

Session 1:  
Oct 14, 2020



# AGENDA

01

## INTRODUCTIONS

Get to know everybody

02

## OVERVIEW

Rough plan for the future

03

## BREAK

10-minute break

04

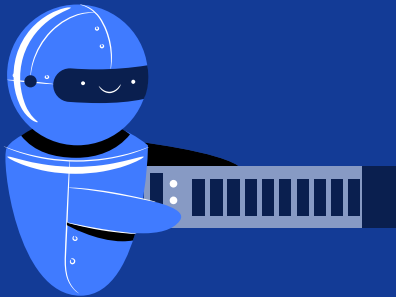
## INTRO TO AI

What is AI and Why it matters

01

# INTRODUCTIONS

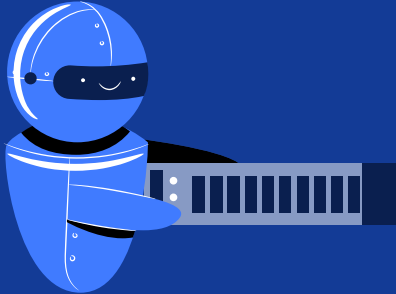
1. Name, age, where you live
2. Favorite thing about STEM
3. Random fact



02

# OVERVIEW

What 's the general plan  
for our club?



# THE PLAN

01

OCTOBER

Icebreakers  
Intro to AI

04

FEBRUARY

Discuss box project  
Intro to Arduino

02

NOVEMBER

Discuss box project  
Teachable Machine

05

MARCH

Discuss box project  
More Arduino  
AI refresher/online  
sims

03

JANUARY

Discuss box project  
Applications of AI  
More online sims

06

APRIL

Discuss box project  
Tiny Sorter Project

# TINY SORTER PROJECT

This is our (planned)  
final project!

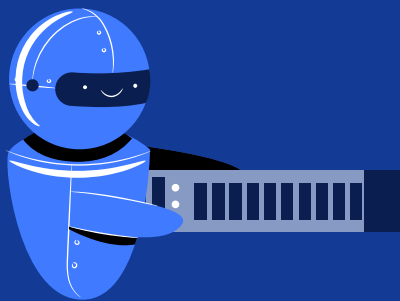
- Needs a webcam



03

BREAK

See you all in 10 minutes





Super fast survey, link in  
the chat.

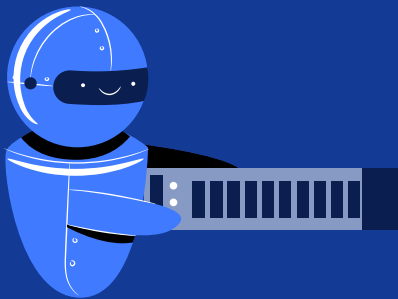
# SURVEY!



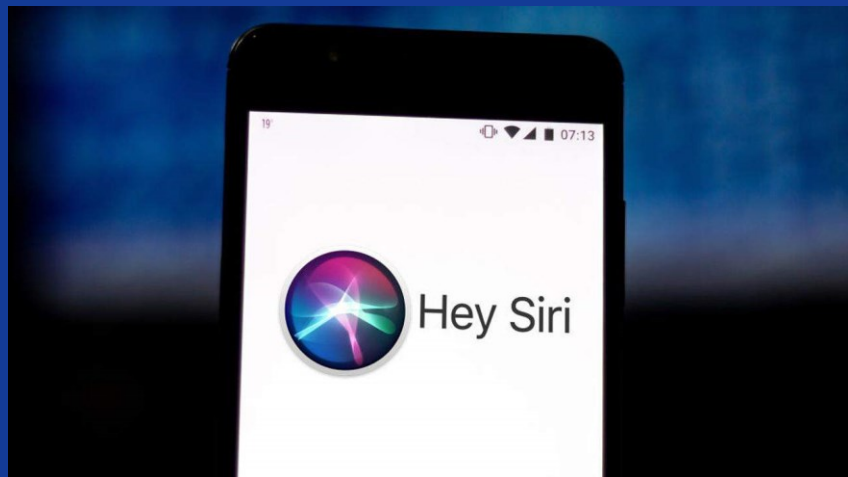
04

# INTRO TO AI

Let's talk about  
artificial intelligence

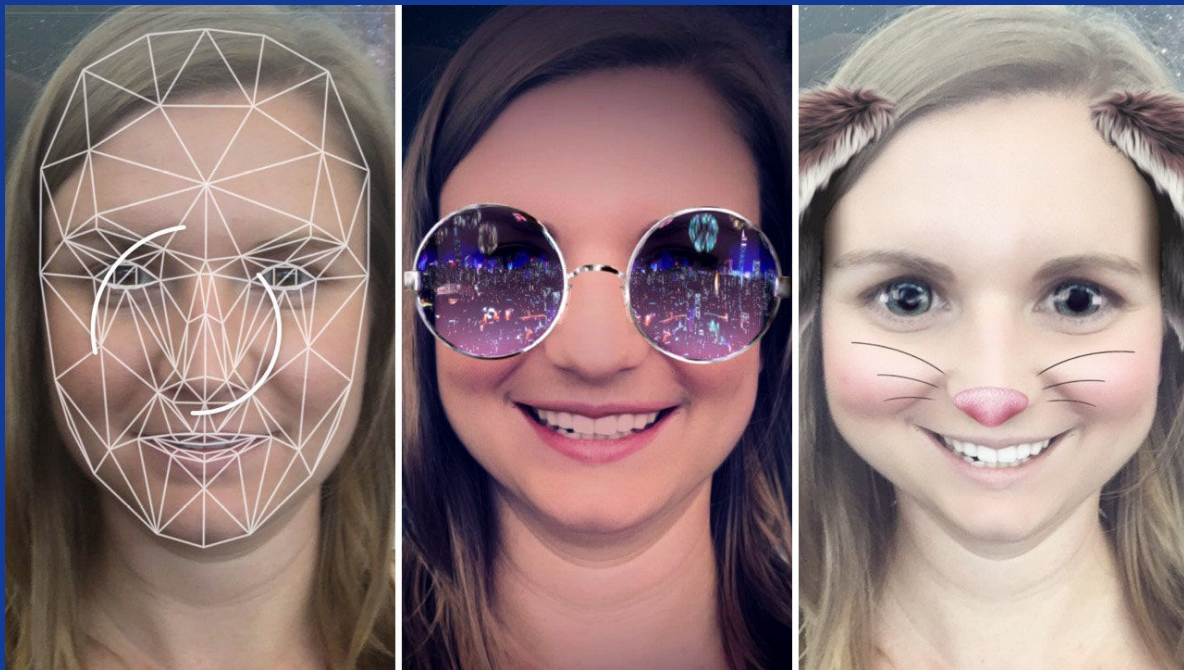








amazon



NETFLIX









# WHAT IS AI?

What do you think?



# DEFINING AI

01.

A branch of computer science dealing with the simulation of intelligent behavior in computers

02.

A branch of computer science that lets computers make **predictions** and **decisions**



# EXAMPLES

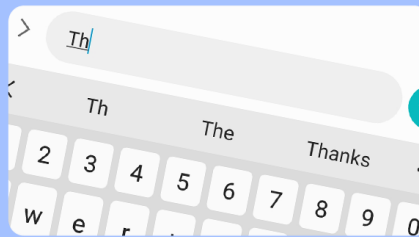
01

CAT OR DOG?



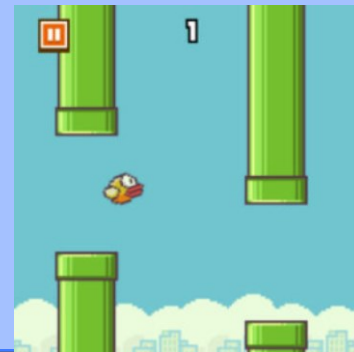
02

AUTOCORRECT



03

PLAY A GAME



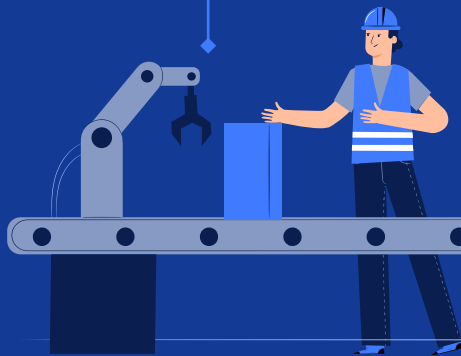


# WHY AI?

It can keep working, even when humans are tired.

**NEVER STOPS**

01



It's fast!

**FAST**

02



It can go where humans cannot.

**ACCESS REMOTE PLACES**

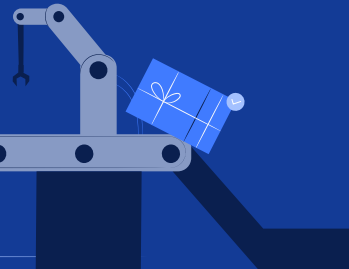
03



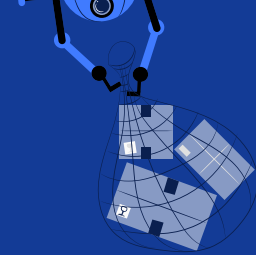
Endless applications for helping people.

**USEFUL**

04

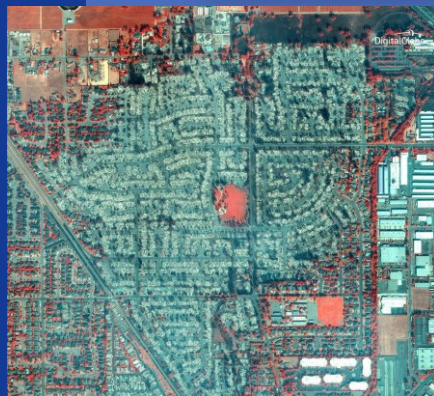
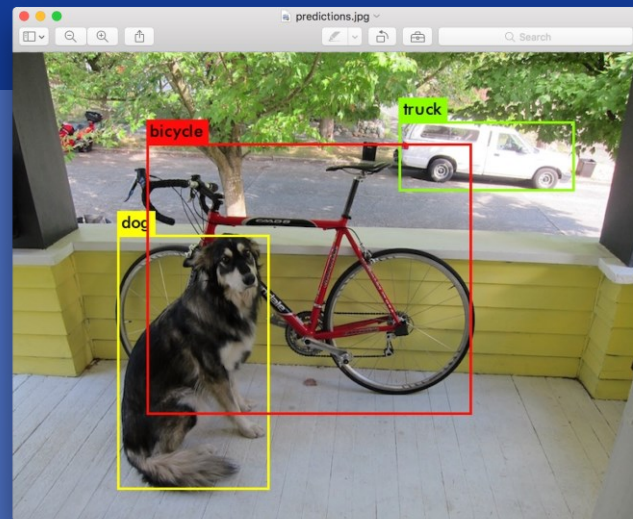


# FIELDS IN AI



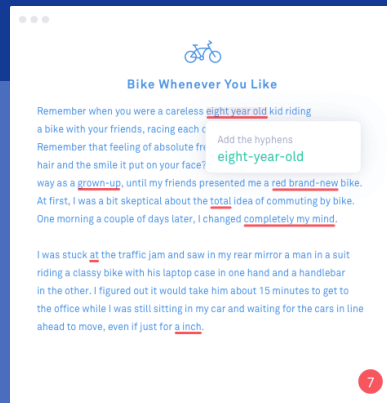
# COMPUTER VISION

Using computers to  
understand images and  
videos



# NATURAL LANGUAGE PROCESSING

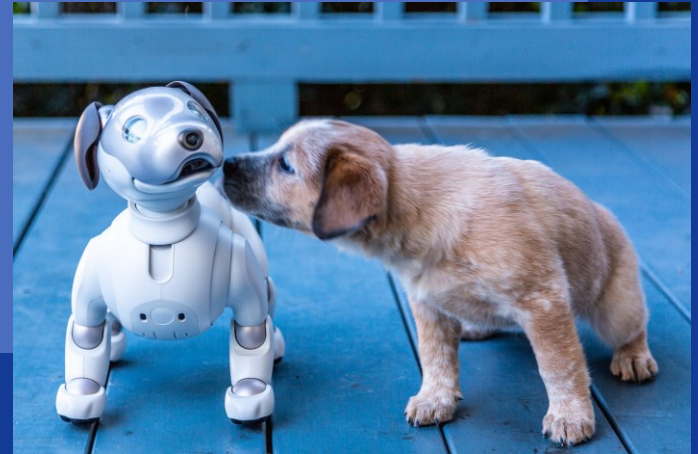
Using computers to  
understand spoken and  
written language



# REINFORCEMENT LEARNING

Computers making  
complex decisions based  
on input from the world

- Recommendation  
systems



# PROBLEMS WITH AI



## JOBS

AI could take some  
people's jobs  
(but it will  
create new ones)

## TRUST

How much do we  
actually trust  
computers?

## DIVERSITY

Lack of diversity  
creates biased AI

## ETHICS

Privacy  
Is AI moral?  
Who to blame if  
it's wrong



How do you think AI can help your community ? How can it hurt?

Discuss!

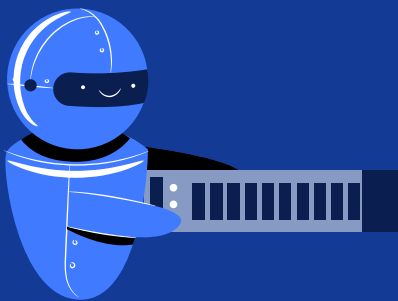


05

# ACTIVITY!!!

GOOGLE AUTODRAW

Autodraw.com





# WRAP UP



Be on the lookout for  
your STEM boxes

Next meeting is Nov.  
18 from 4:30–6:00 pm

# THANK YOU!

## Any questions?

