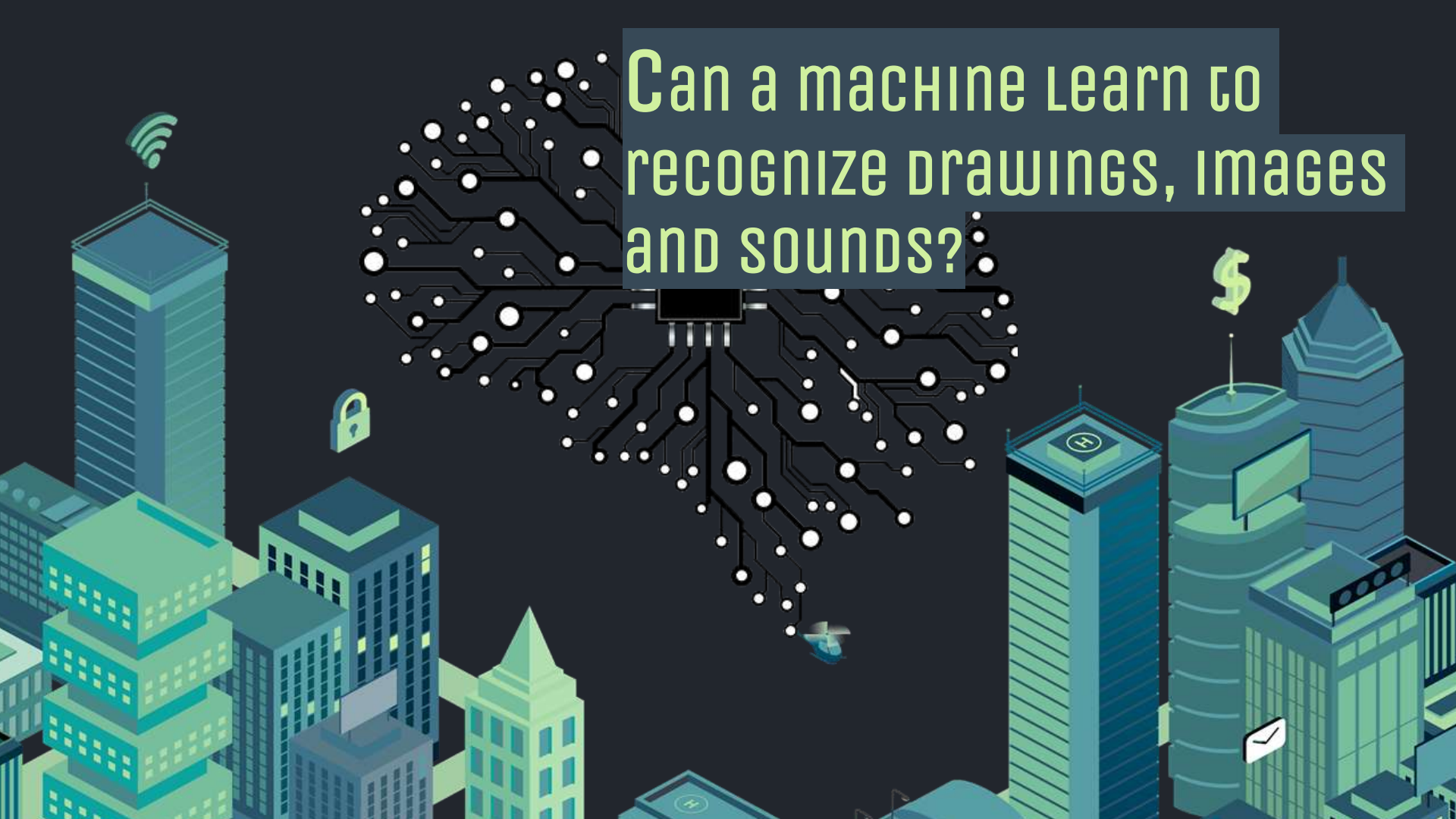




School Program for Primary Education Students

Basic Learning Activity
Doukas School

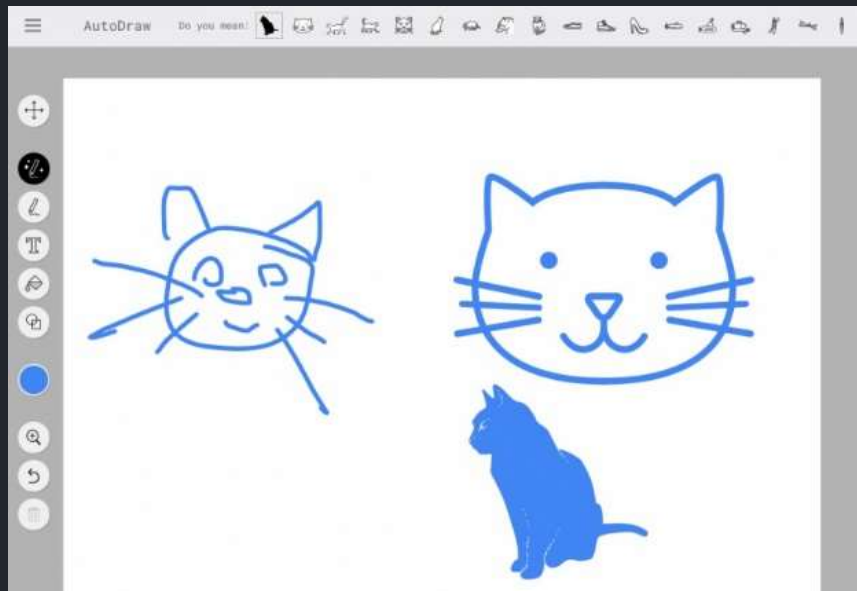
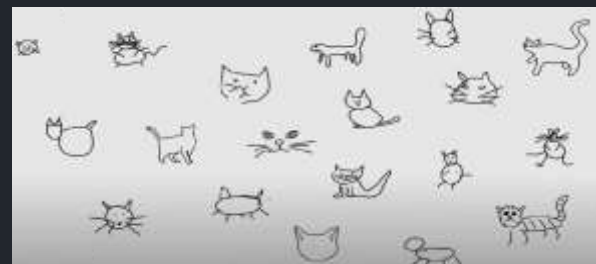
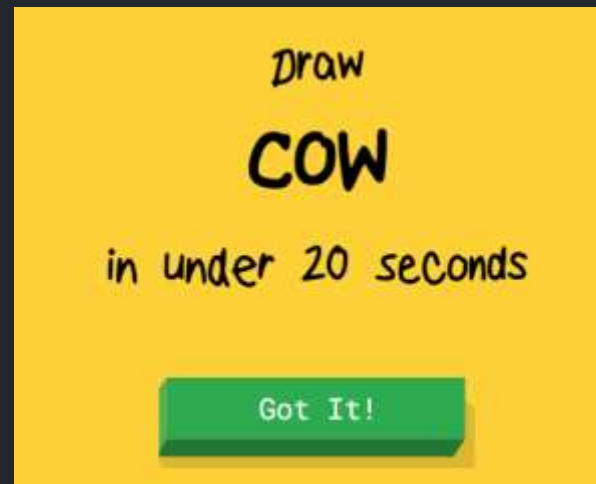
Can a machine learn to
recognize drawings, images
and sounds?



BRING YOUR PHOTOS



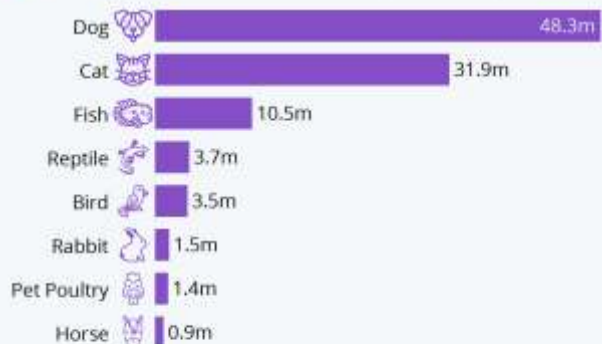
DRAW YOUR PET

AutoDrawQuick, Draw

VOTE FOR YOUR PET

Americans' Favorite Furry Friends

Approximate number of households owning the following pets in the United States (2017-2018)



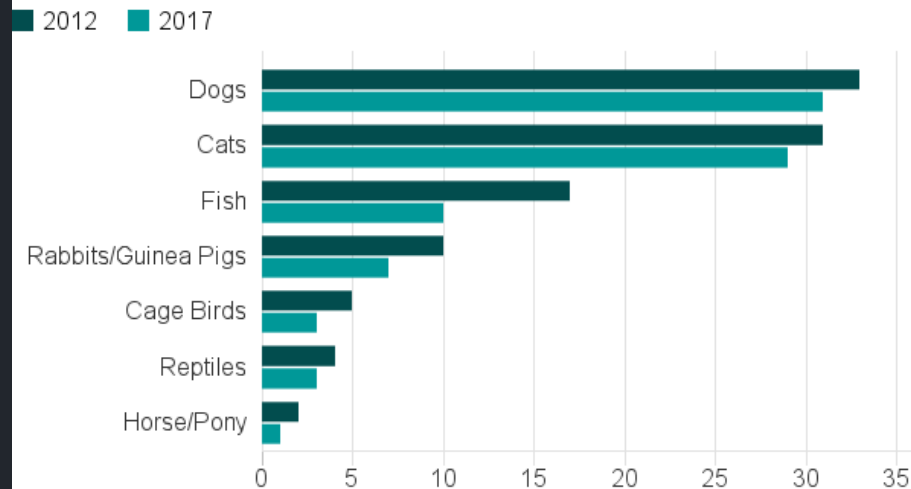
Source: American Veterinary Medical Association



statista

Fewer UK households own pets

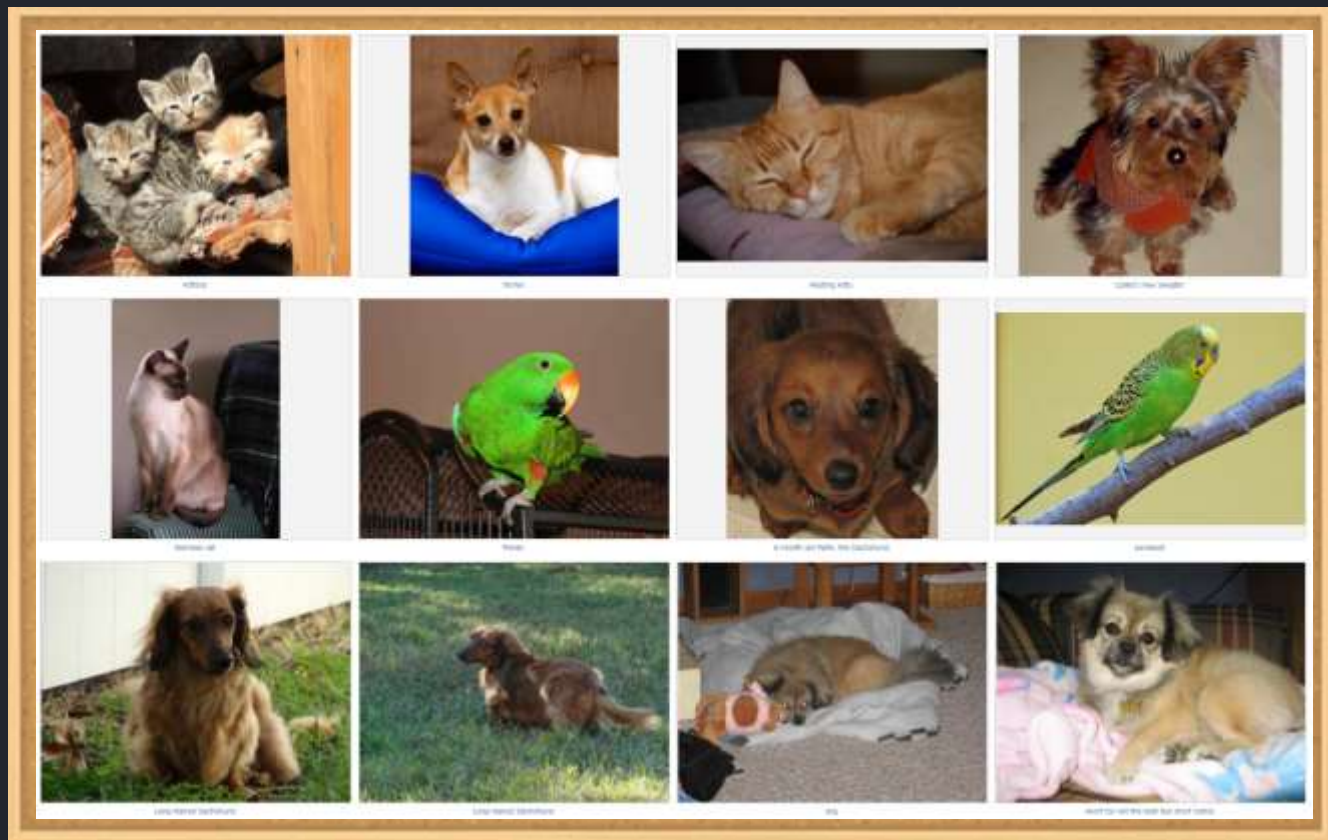
Pet ownership by type of pet (%)



Source: Mintel.

BBC

THE BOARD OF PETS



WHERE IS THE PET

2

3

4

5

6

7

8

A



B



C



D

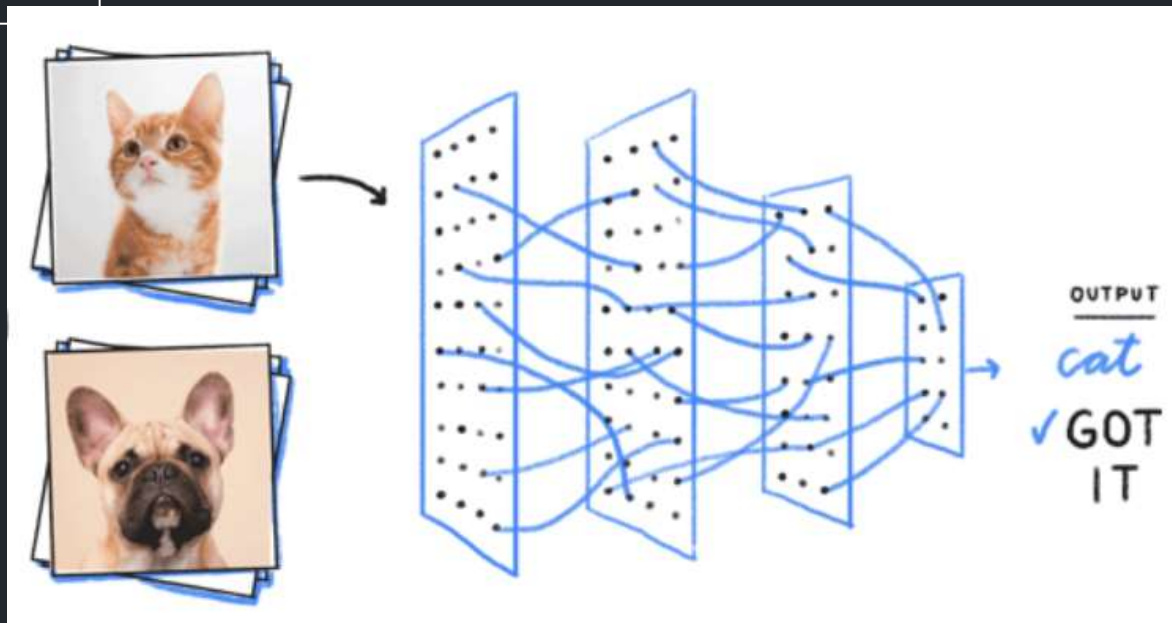


Source: www.freecodecamp.org

EXAMPLE OF PADLET



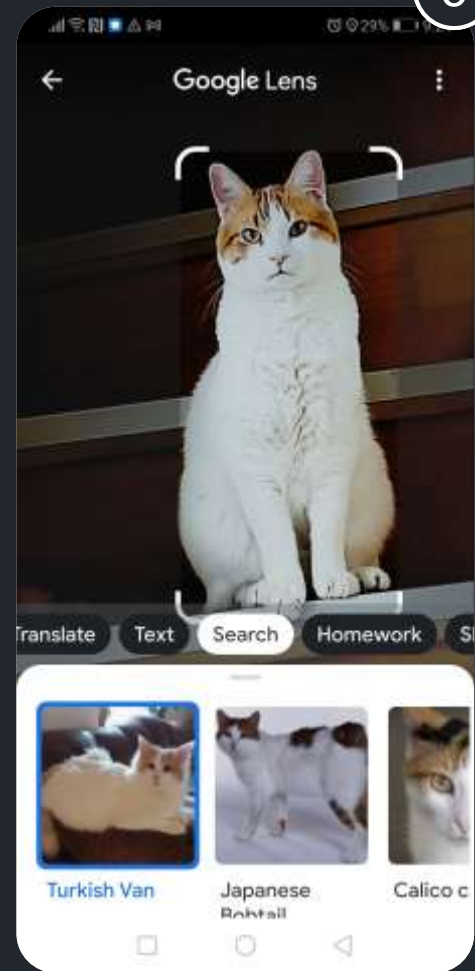
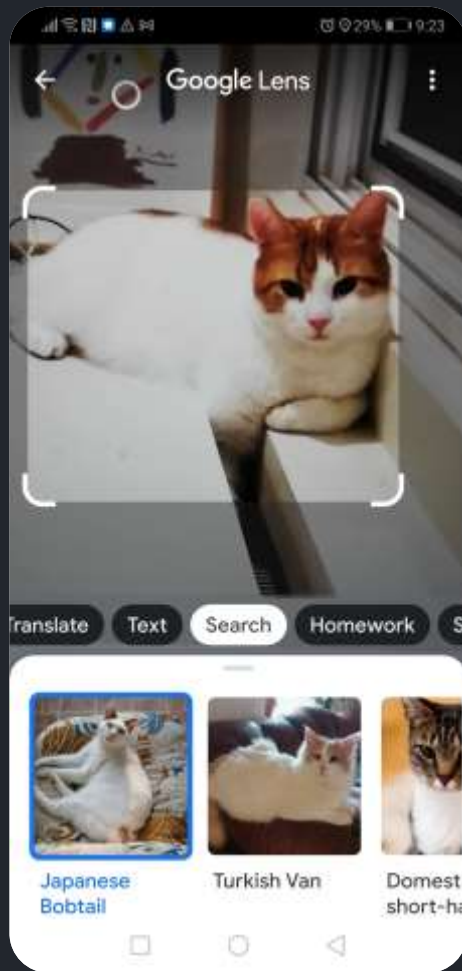
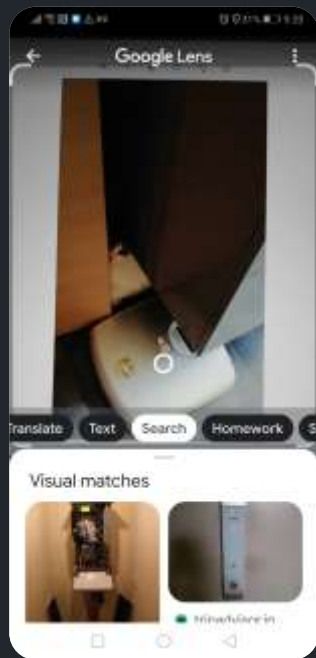
PLAY WITH THE PHOTOS



What is the Animal

IS IT THE SAME CAT?

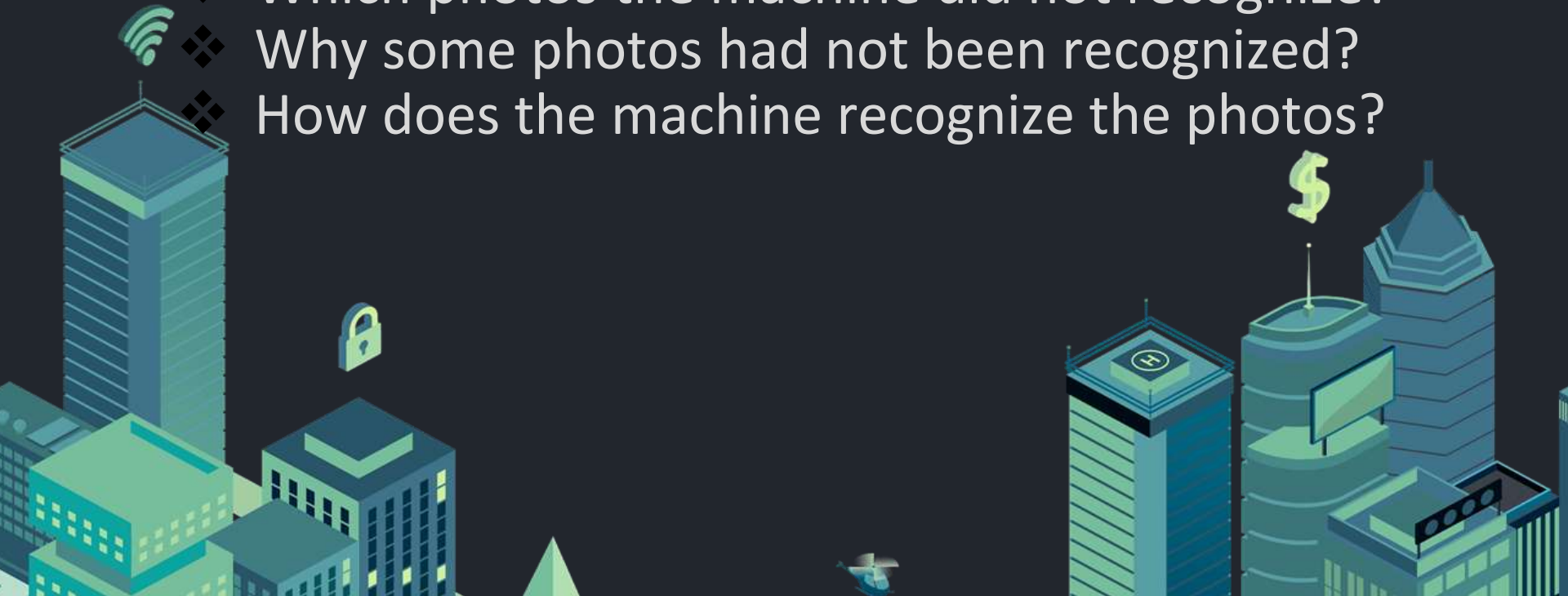
Google Lens



Think about...

6

- ❖ Which photos did the machine recognize?
- ❖ Which photos the machine did not recognize?
- ❖ Why some photos had not been recognized?
- ❖ How does the machine recognize the photos?



EXPLORE PHOTOS

7

COCO 2017 train/val browser (123,287 images, 886,284 instances) Crowd labels not shown



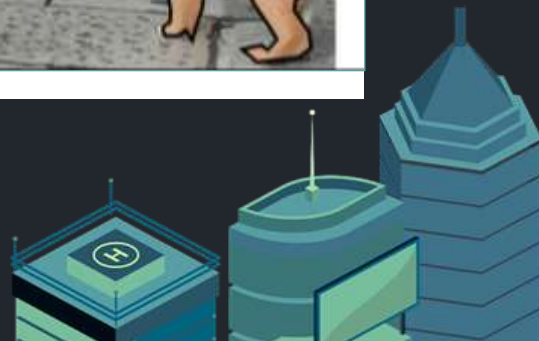
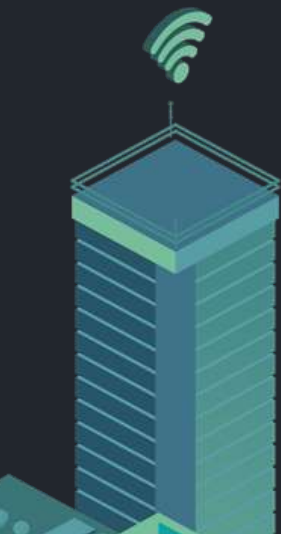
cat ✖ bird ✖

77 results



50 million drawings

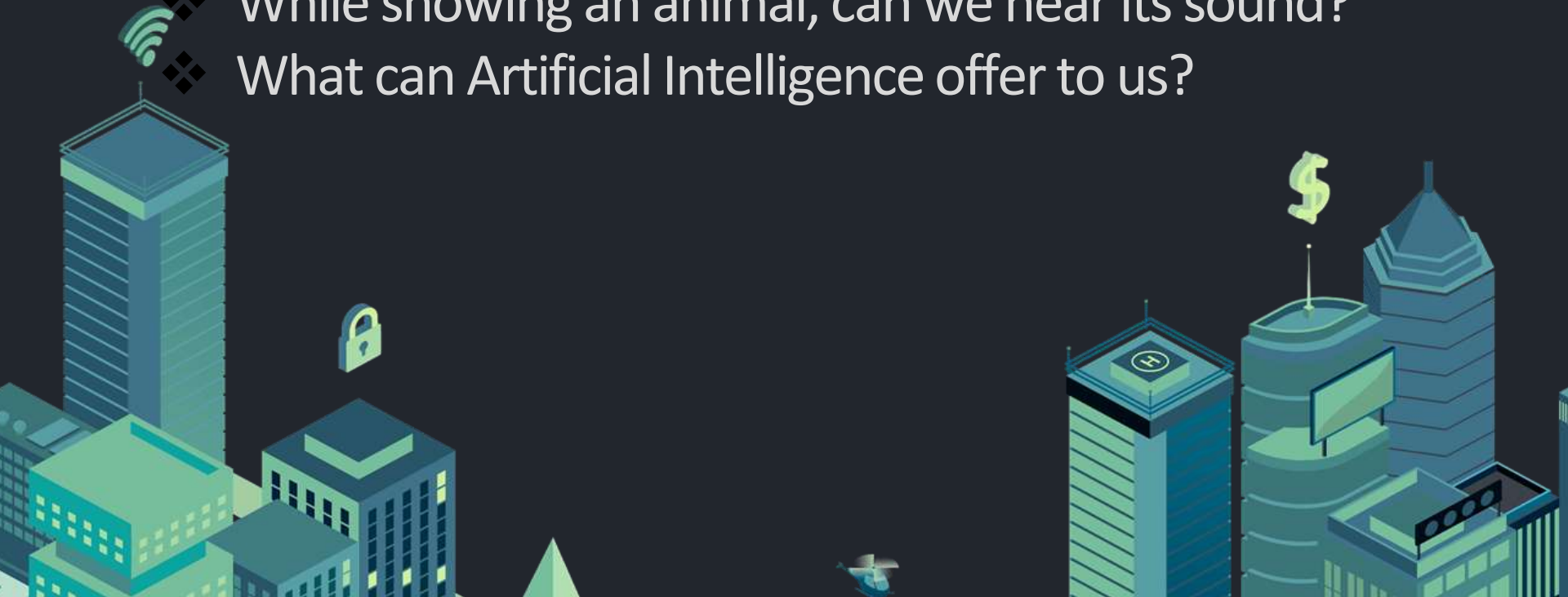
Coco Explorer



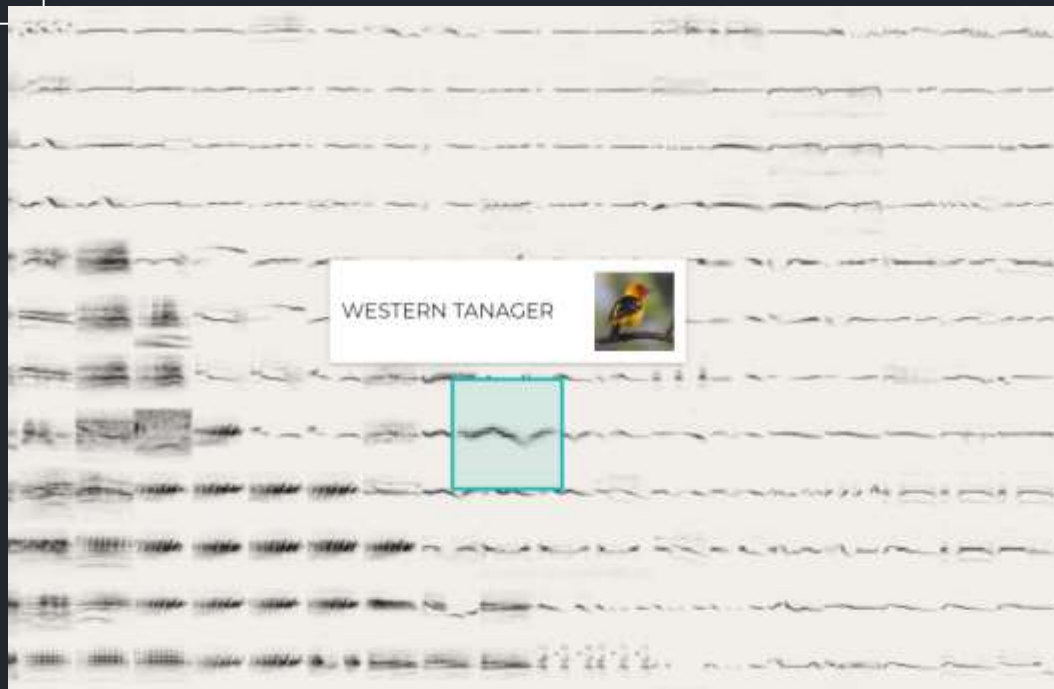
Think about...

8

- ❖ Apart from pictures, can the machine recognize sounds?
- ❖ While showing an animal, can we hear its sound?
- ❖ What can Artificial Intelligence offer to us?



HEAR THE BIRDS

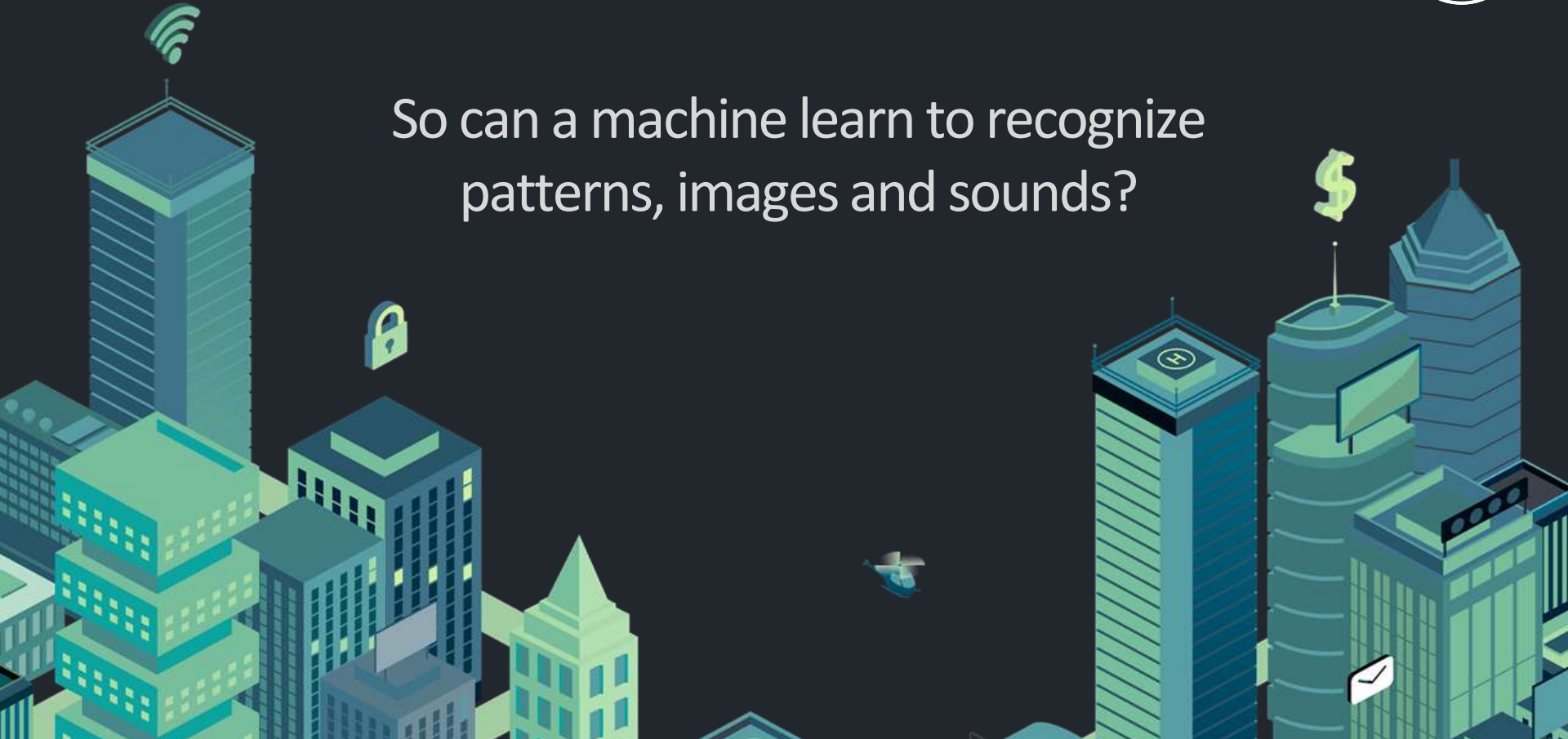


Bird-Sounds

Think about...

10

So can a machine learn to recognize patterns, images and sounds?



Video Production: George Tsigkos
Narrator (student): Christofer Chiras

