

Now painting with layer: 1, press a key to switch

Press d to clear screen



# Har du trænet din algoritme i dag?



Kreativ og sjov maskinlæring  
Andreas Refsgaard  
Vejle 2019

# Min baggrund + filosofi

## Kodning, kunst og kunstig intelligens

### Hands on øvelse

### Spørgsmål

# Andreas Refsgaard



Interaktionsdesigner  
+ kreativ programmør

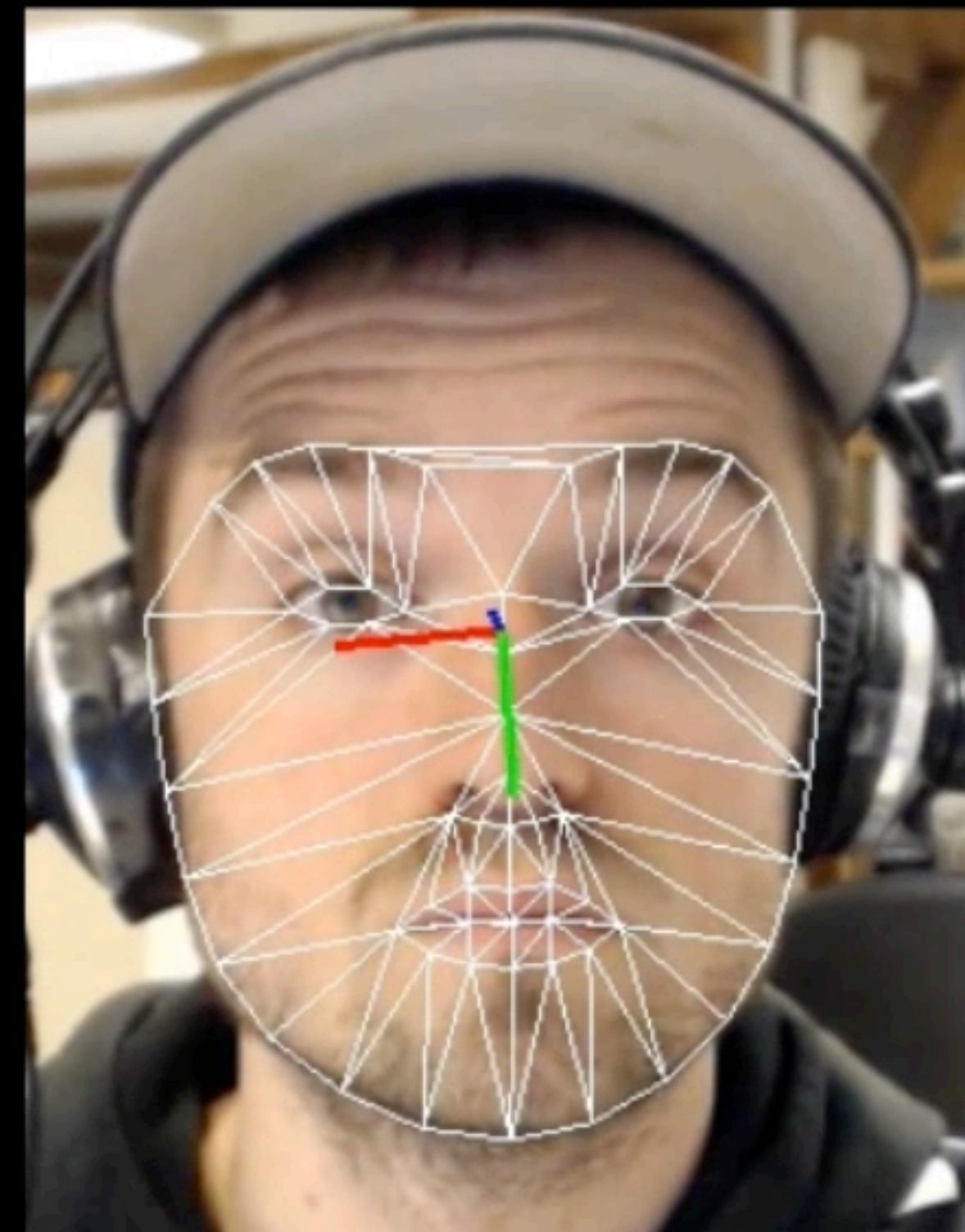
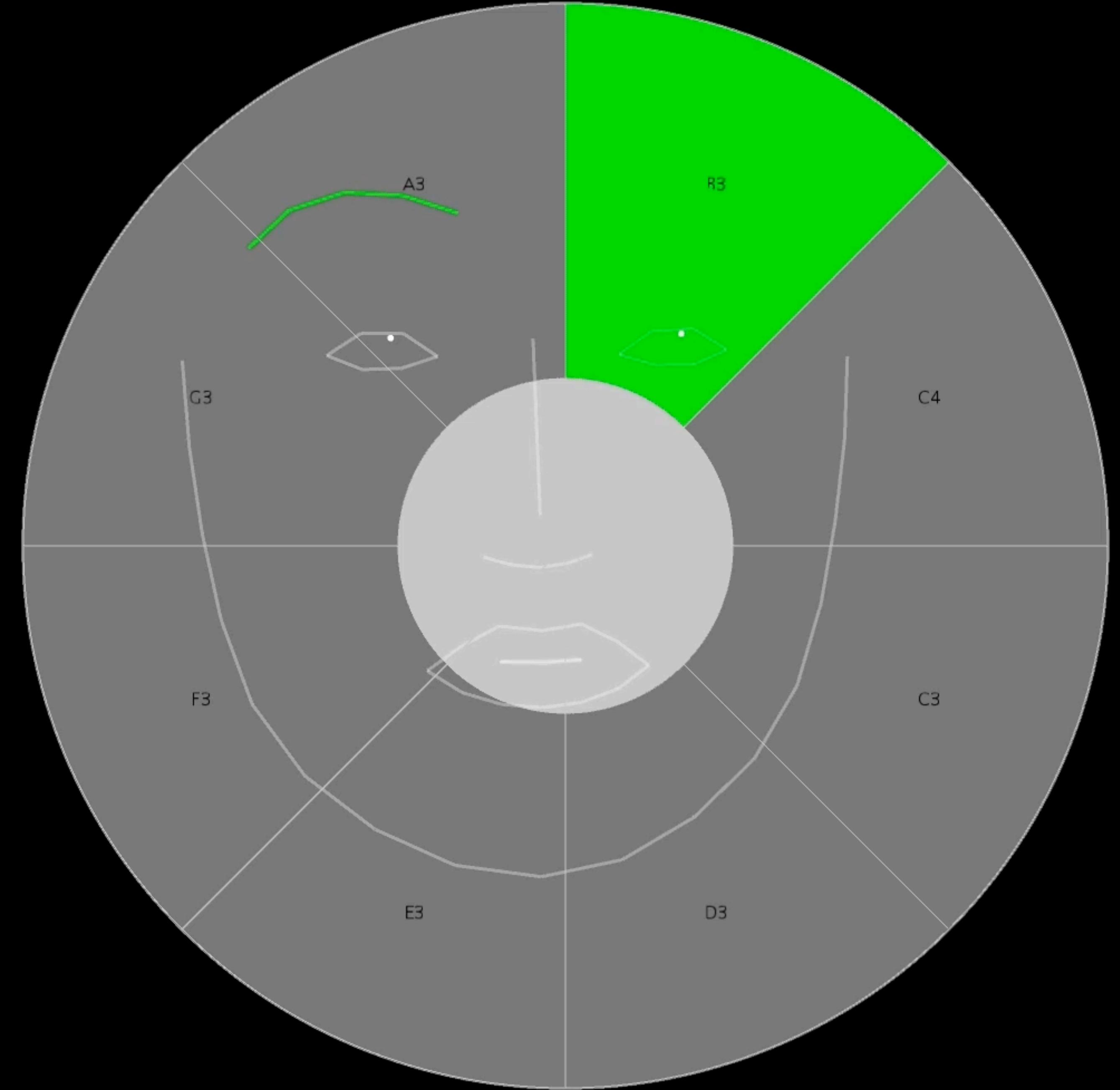
Bachelor i Sociologi fra KU  
Kandidat i Digital Design fra ITU  
IDP from CIID

# Inputs & Outputs

Waveform

A waveform is the shape  
and form of a signal.

jeg bruger [x]  
til at styre [y]



**Då to minutter**: Bemærk, at denne artikel er skrevet af en journalist fra **ElVestre**, der har været med til at bryde for ham. Han har også skrevet om **Barca** og **pornostjerne**.

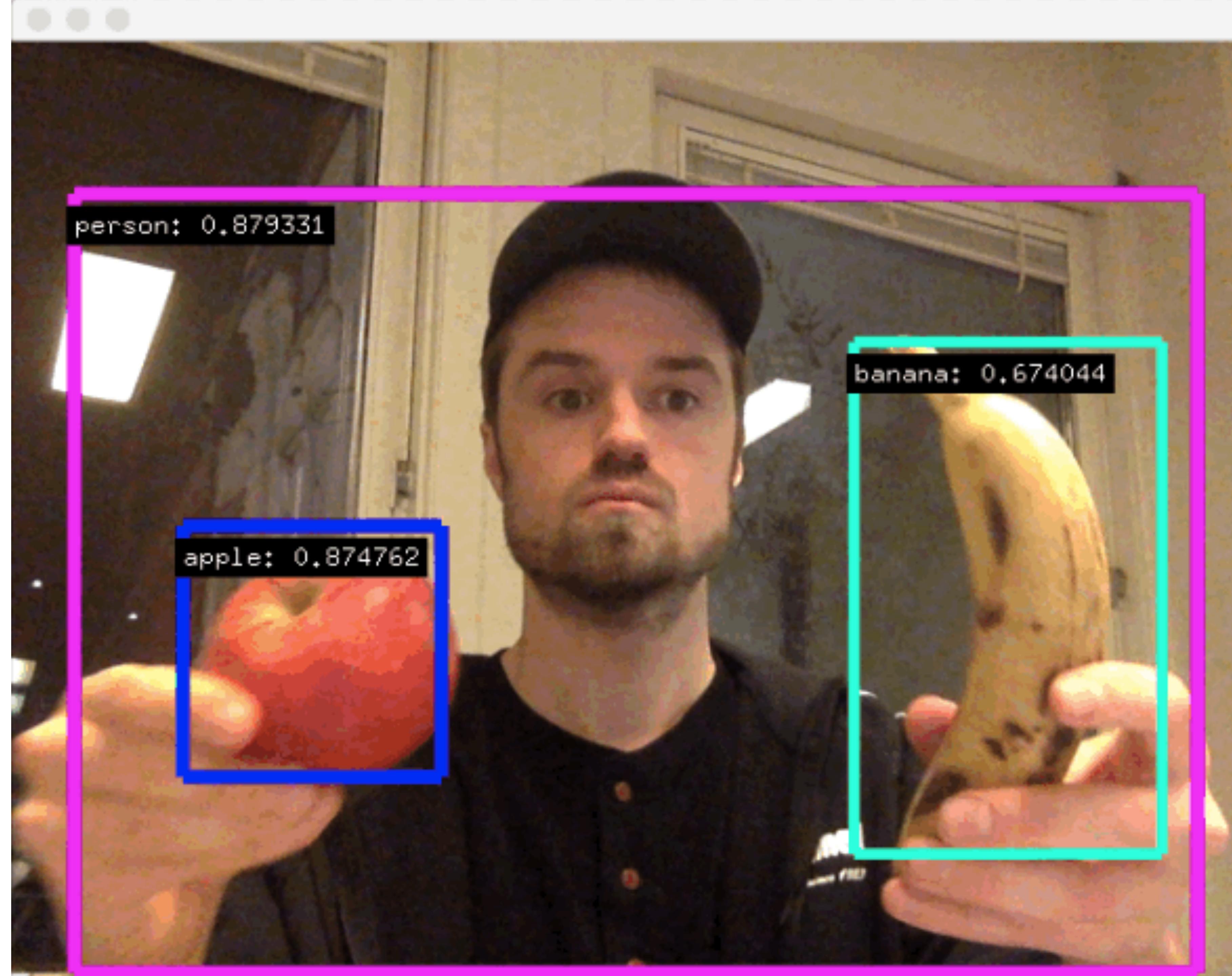
Now painting with layer: 0, press a key to switch

Press d to clear screen

50	ALPHAVAL
1	BRUSHRESOLUTION
35	BRUSHSIZE



# Machine Learning



# Machine Learning



## LeapMotion\_Fingertips\_15Inputs\_1ClassifierOutput | Pro



## LeapMotion\_Fingertips\_15Inputs\_1ClassifierOutput

```
1 //adapted from https://github.com/nok/leap-motion-processing/blob/master/examples/e1_basic/e1_basic.p
2 //Sends 15 features ((x,y,z) tip of each finger) to Wekinator
3 // sends to port 6448 using /wek/inputs message
4
5 import de.voidplus.leapmotion.*;
6
7 import oscP5.*;
8 import netP5.*;
9
10 int num=0;
11 OscP5 oscP5;
12 NetAddress dest;
13 LeapMotion leap;
14 int numFound = 0;
15
16 float[] features = new float[15];
17
18 PImage rock;
19 PImage paper;
20 PImage scissors;
21
22 int lastMessage = 1;
23
24 void setup() {
25   size(displayWidth, displayHeight, OPENGL);
26   background(255);
27   // ...
28
29 /* start oscP5, listening for incoming messages at port 12000 */
30 oscP5 = new OscP5(this,12000);
31 dest = new NetAddress("127.0.0.1",6448);
32
33 leap = new LeapMotion(this);
34 sendInputNames();
35
```



# Supervised Machine Learning

Bygge prototyper (næsten) uden at programmere

Lade brugere træne og bestemme interaktionerne

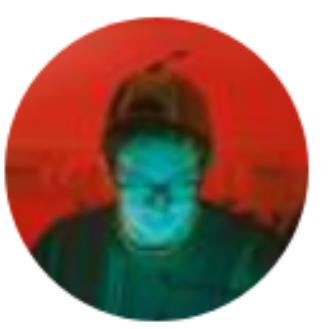
Bruge komplekse inputs fx video og lyd



Teach a machine using your camera,  
live in the browser. No coding required.

 Let's Go!

or [skip the tutorial](#)



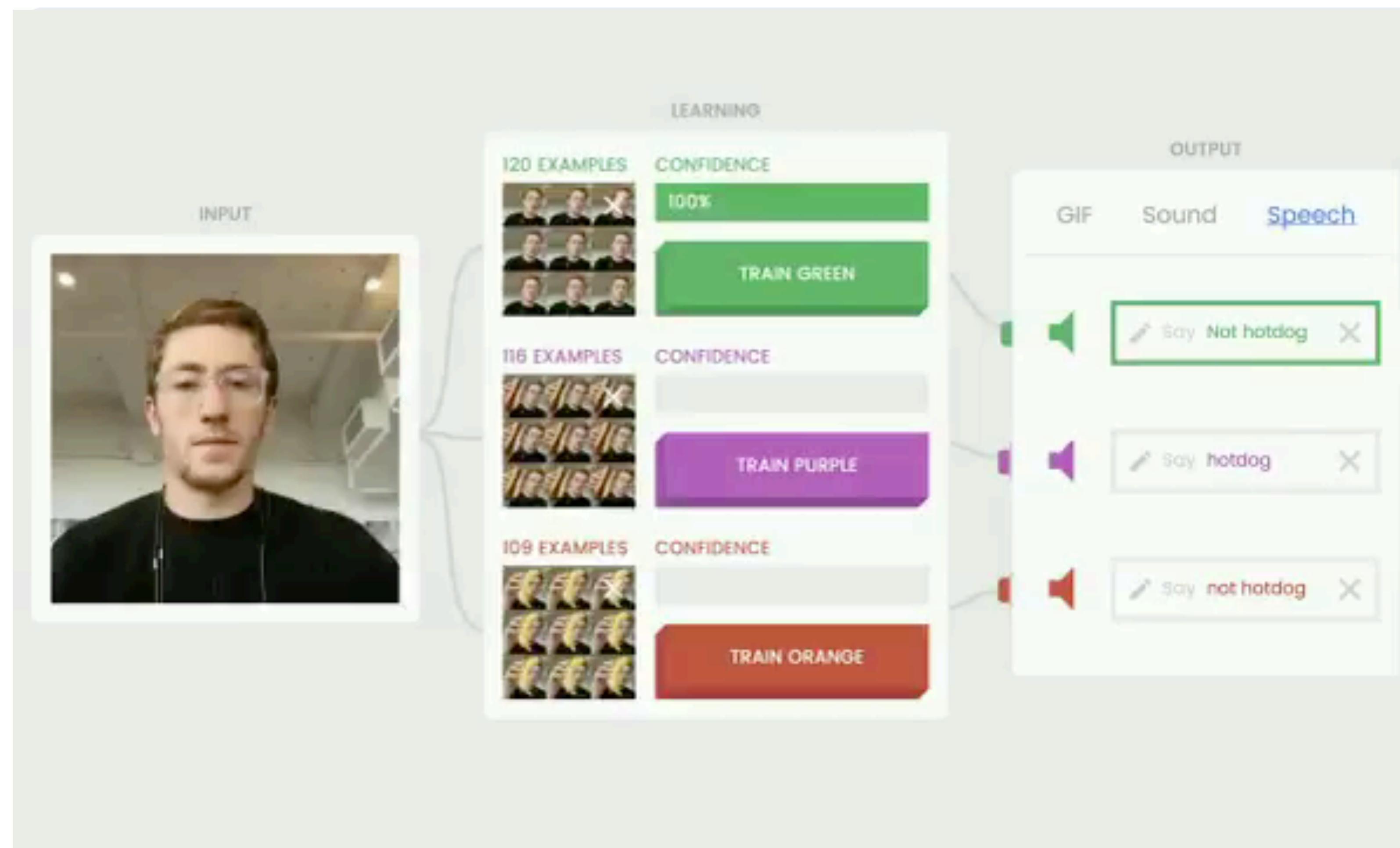
Barron

@WarronBebster

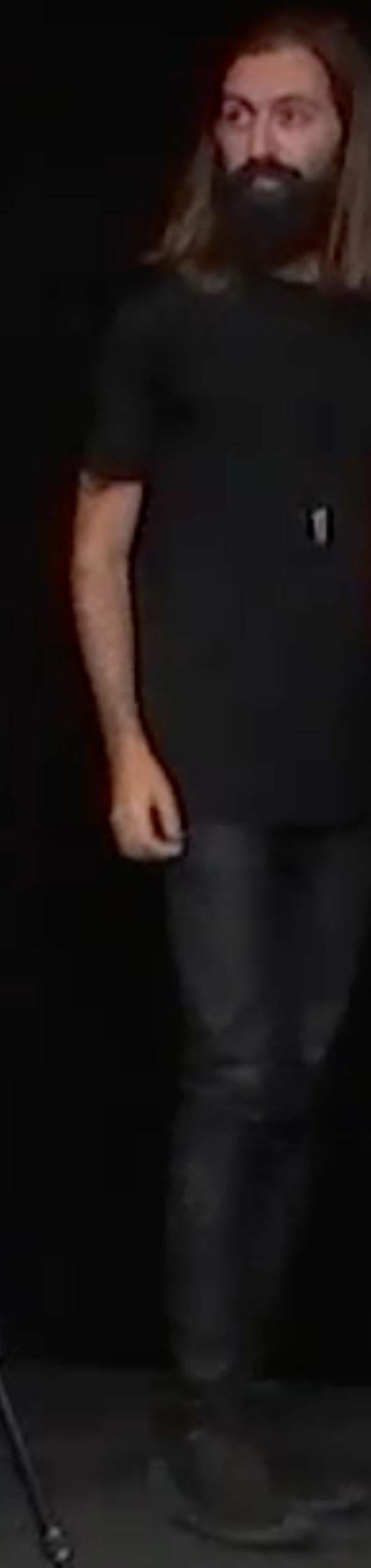
Follow

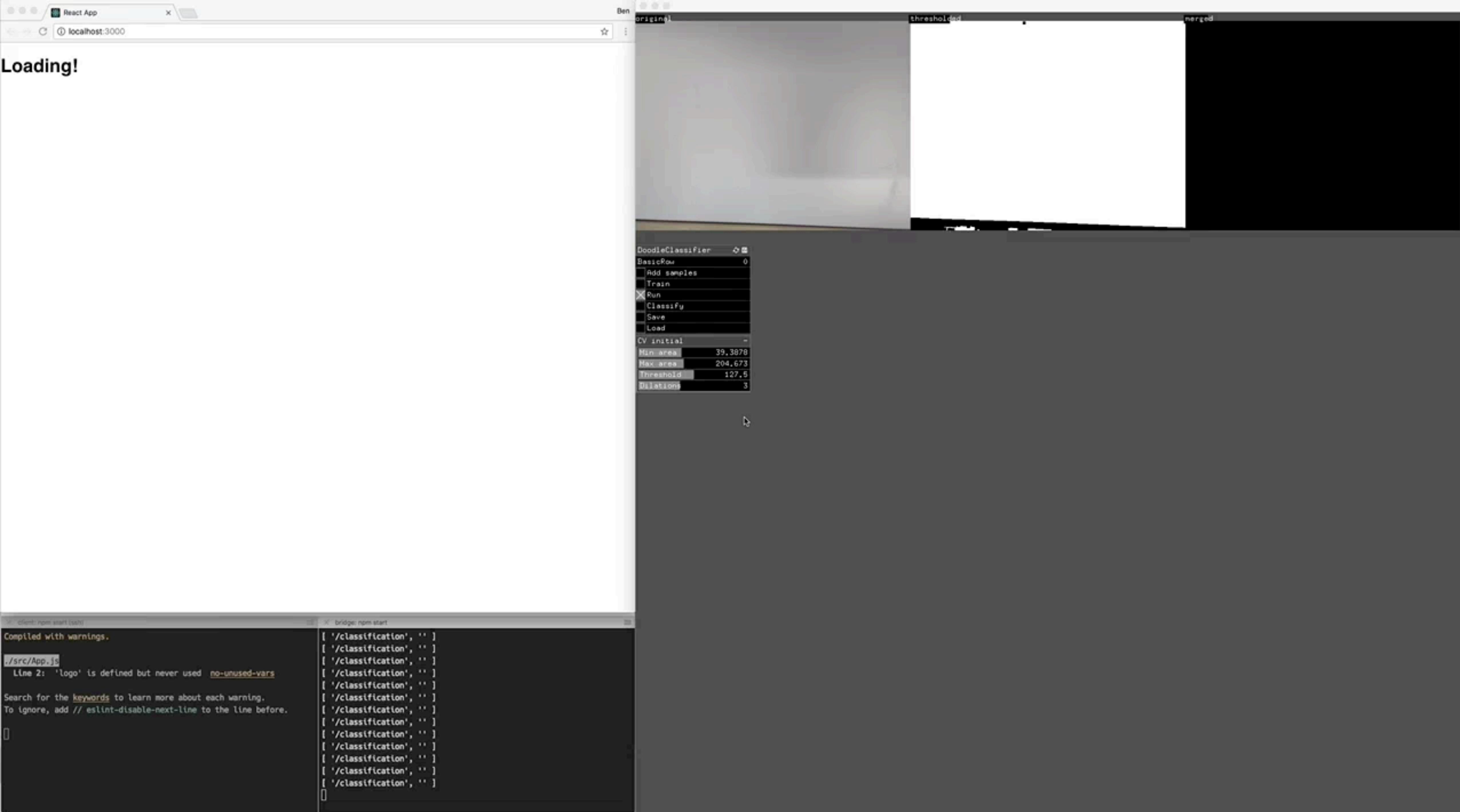


I used **#teachablemachine** to make  
**@siliconhbo's Not Hotdog app:**









# IS IT FUNKY?



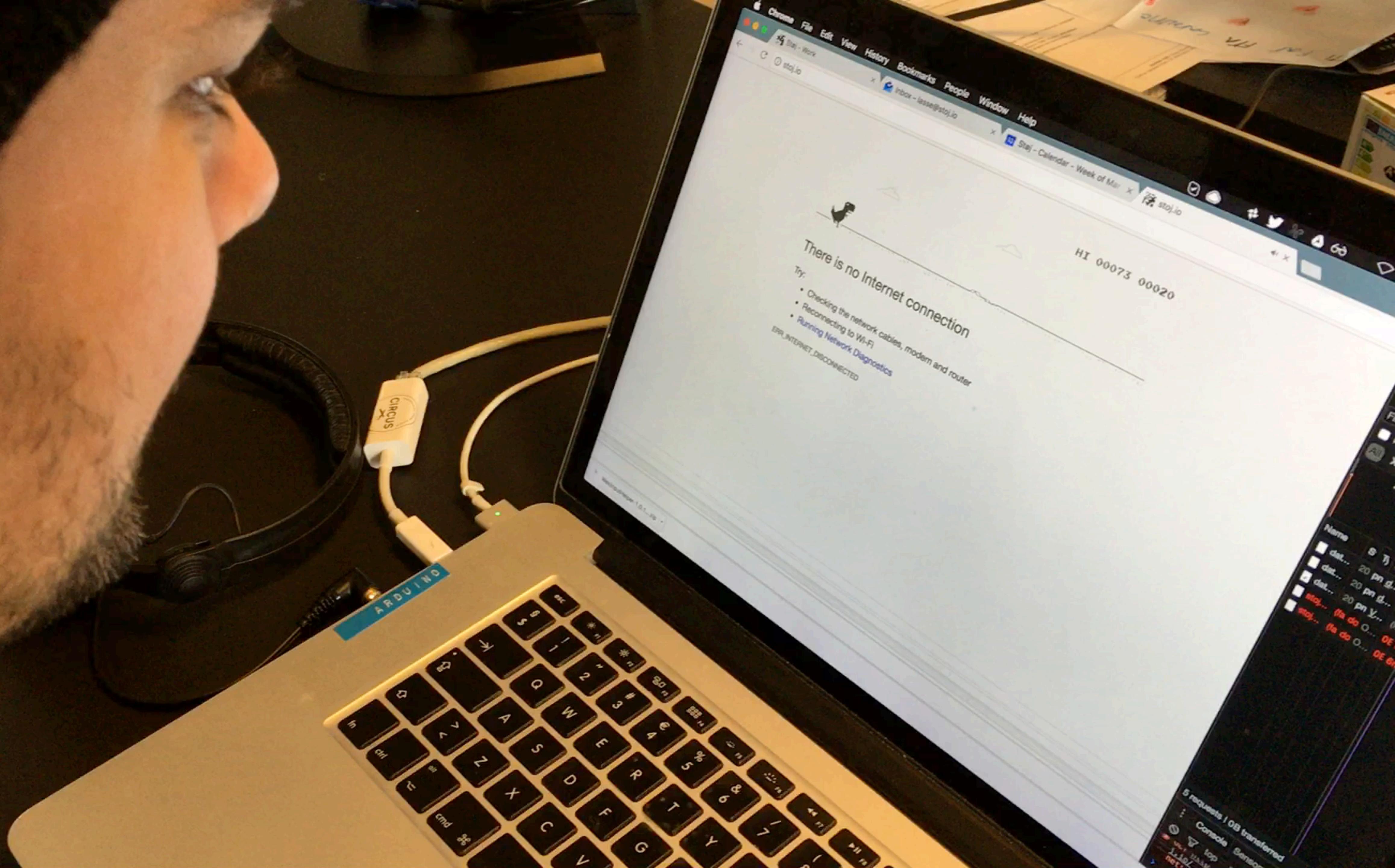
Prince

INSTRUCTIONS:  
Click an image to get it  
classified as funky or boring  
Press ENTER for new image search

Click an image to have it  
classified as either  
boring or funky



FUNK SCORE: 10



There is no Internet connection

Try:

- Checking the network cables, modem and router
- Reconnecting to Wi-Fi
- Running Network Diagnostics

ERR\_INTERNET\_DISCONNECTED

Sound controlled  
Wolfenstein

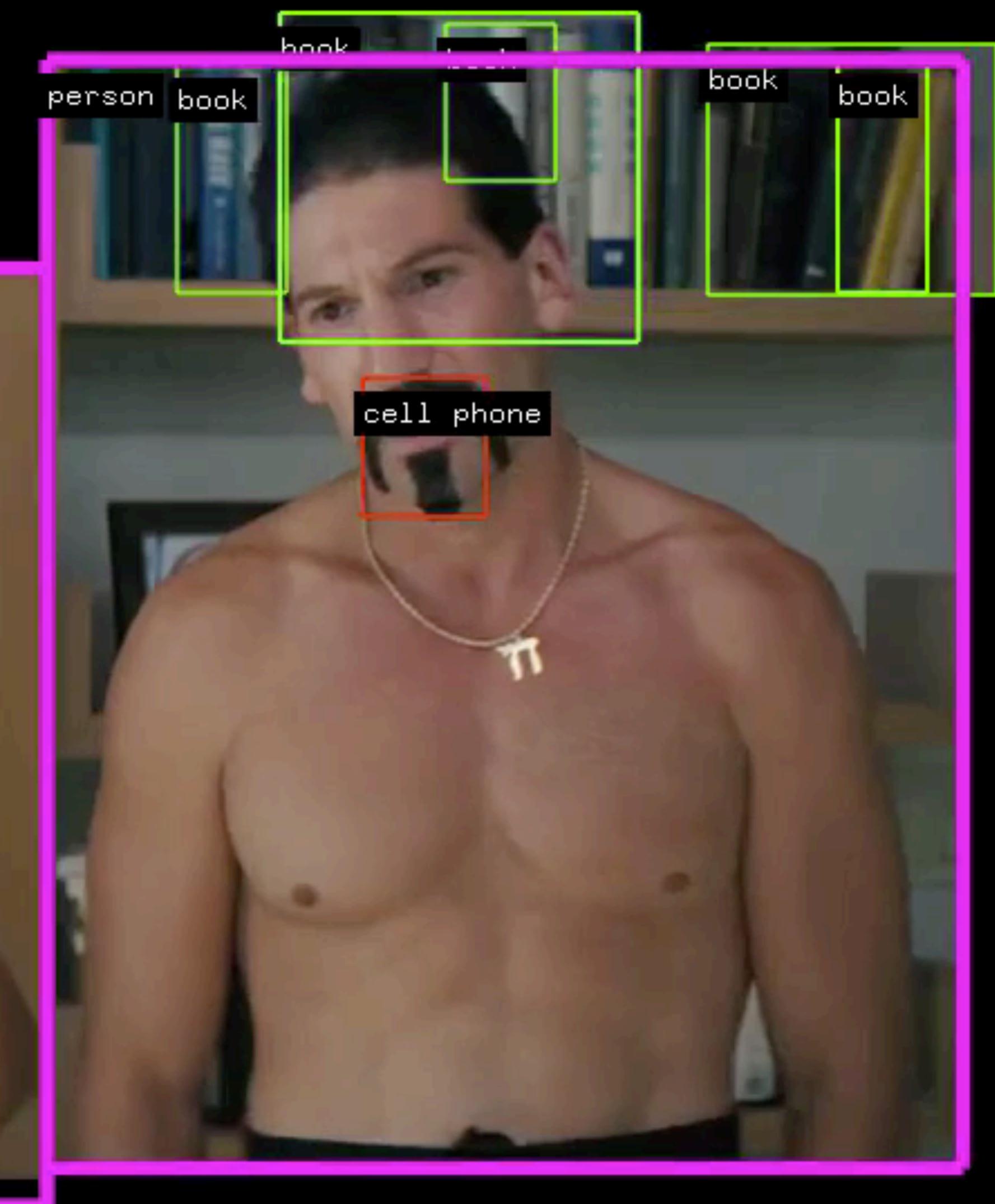
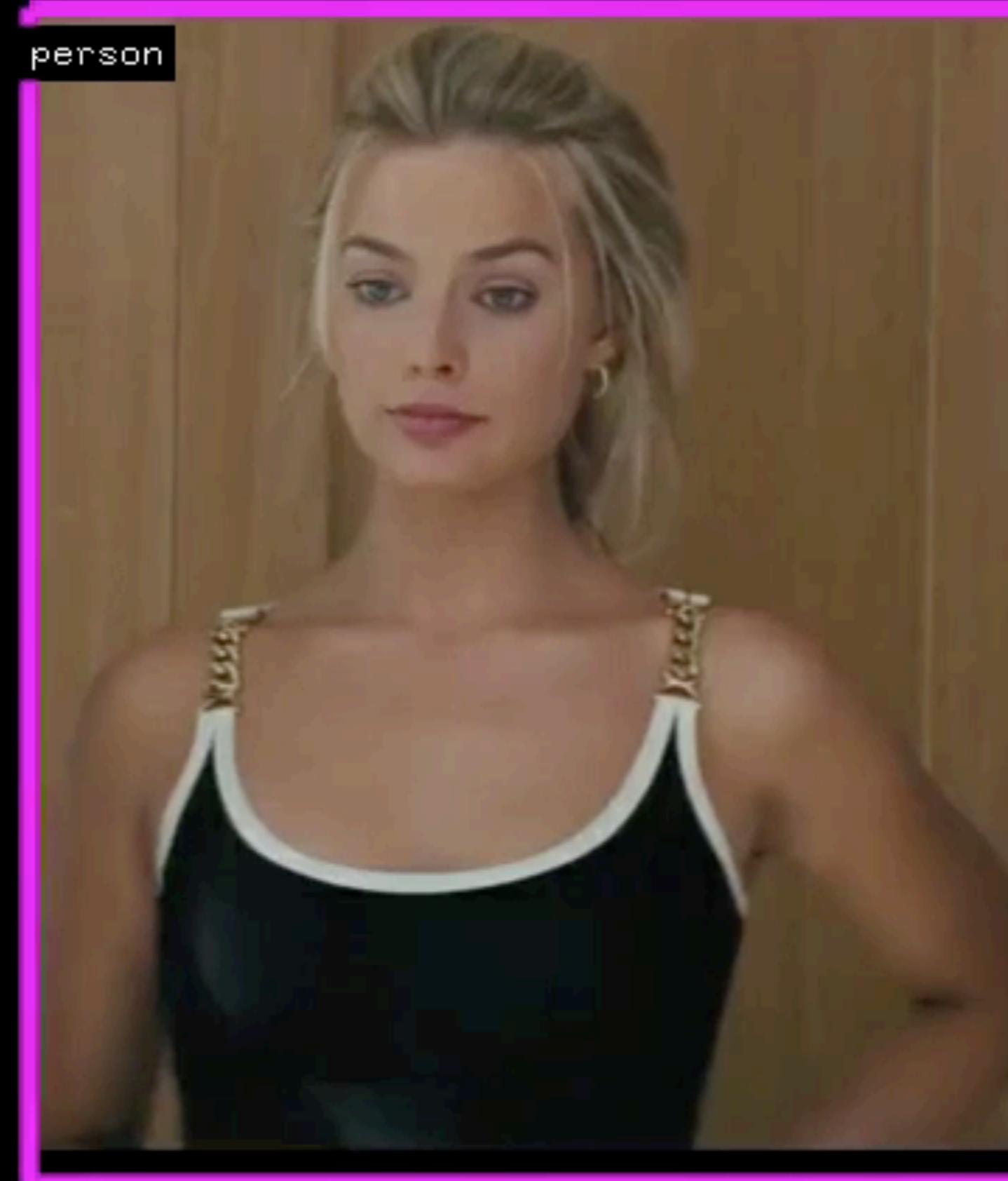


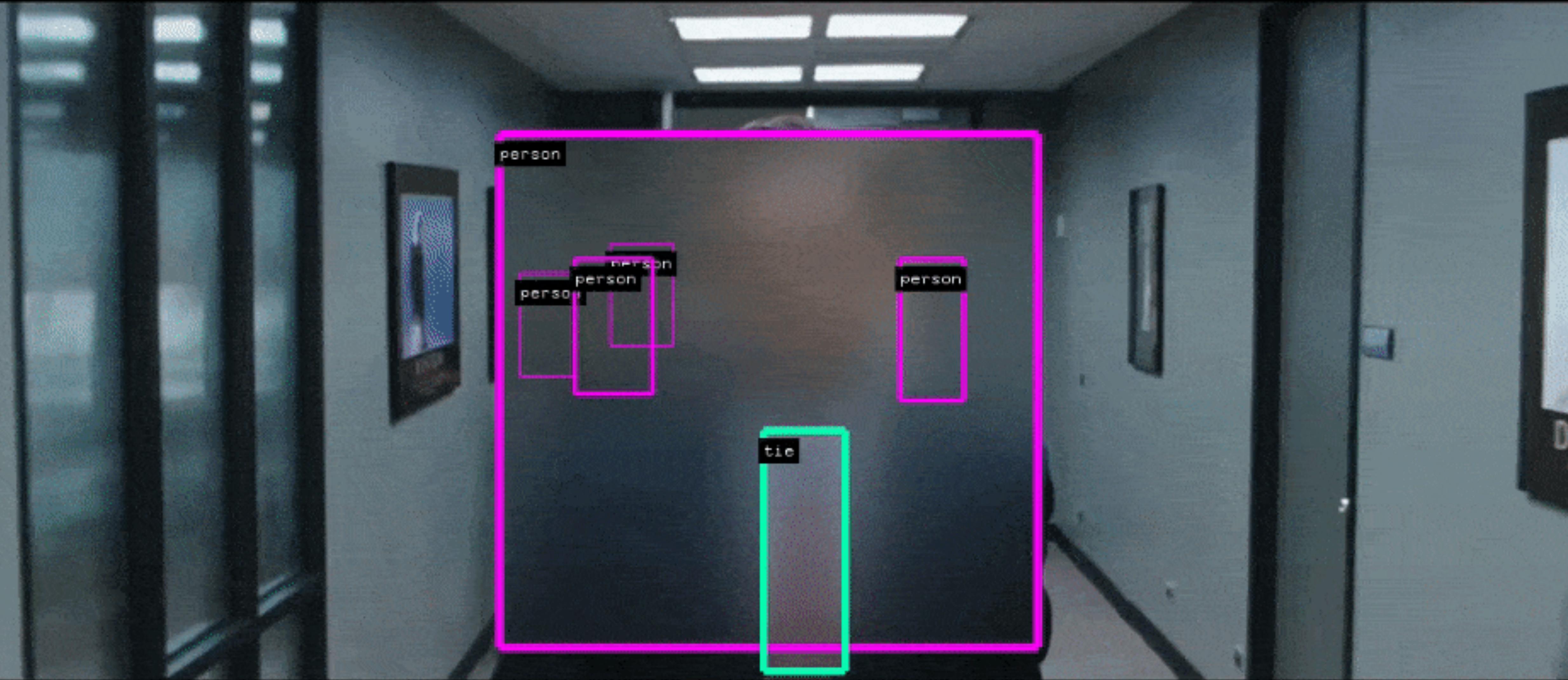
FLOOR	SCORE	LIVES	HEALTH	AMMO
1	0	3	100%	16

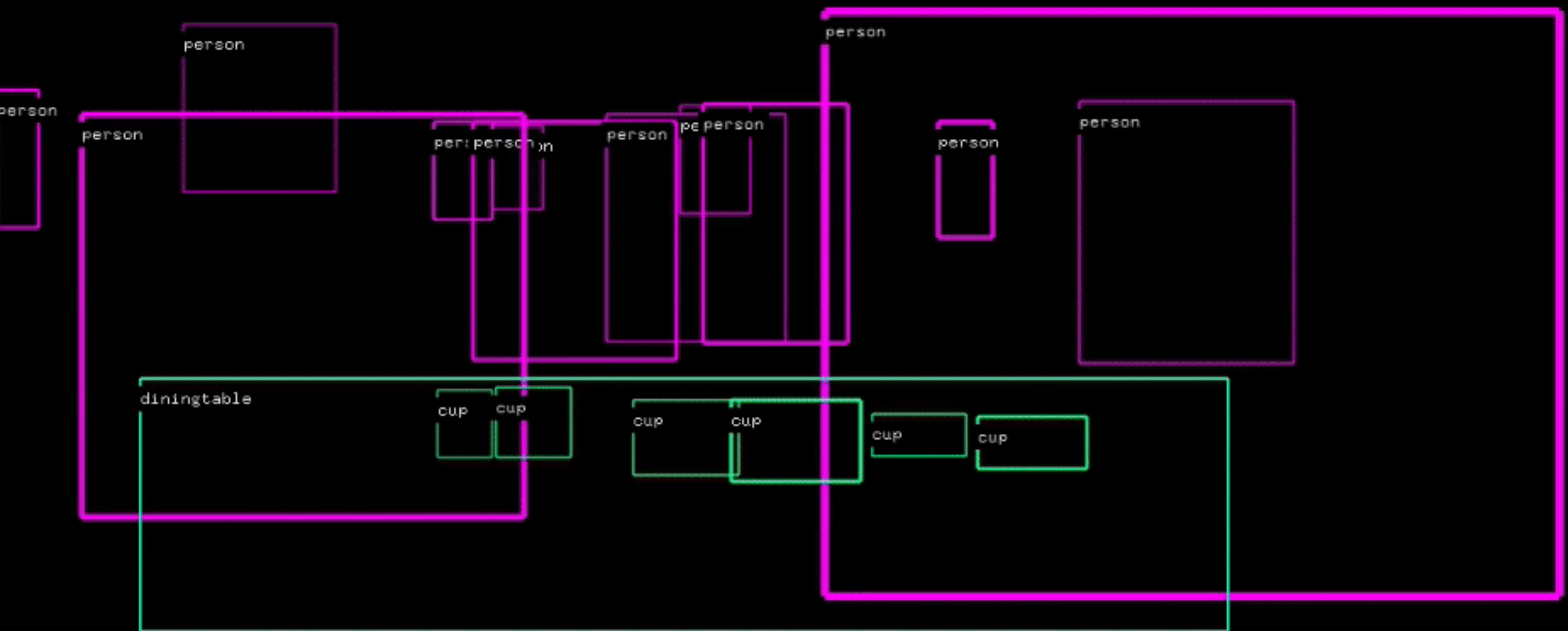


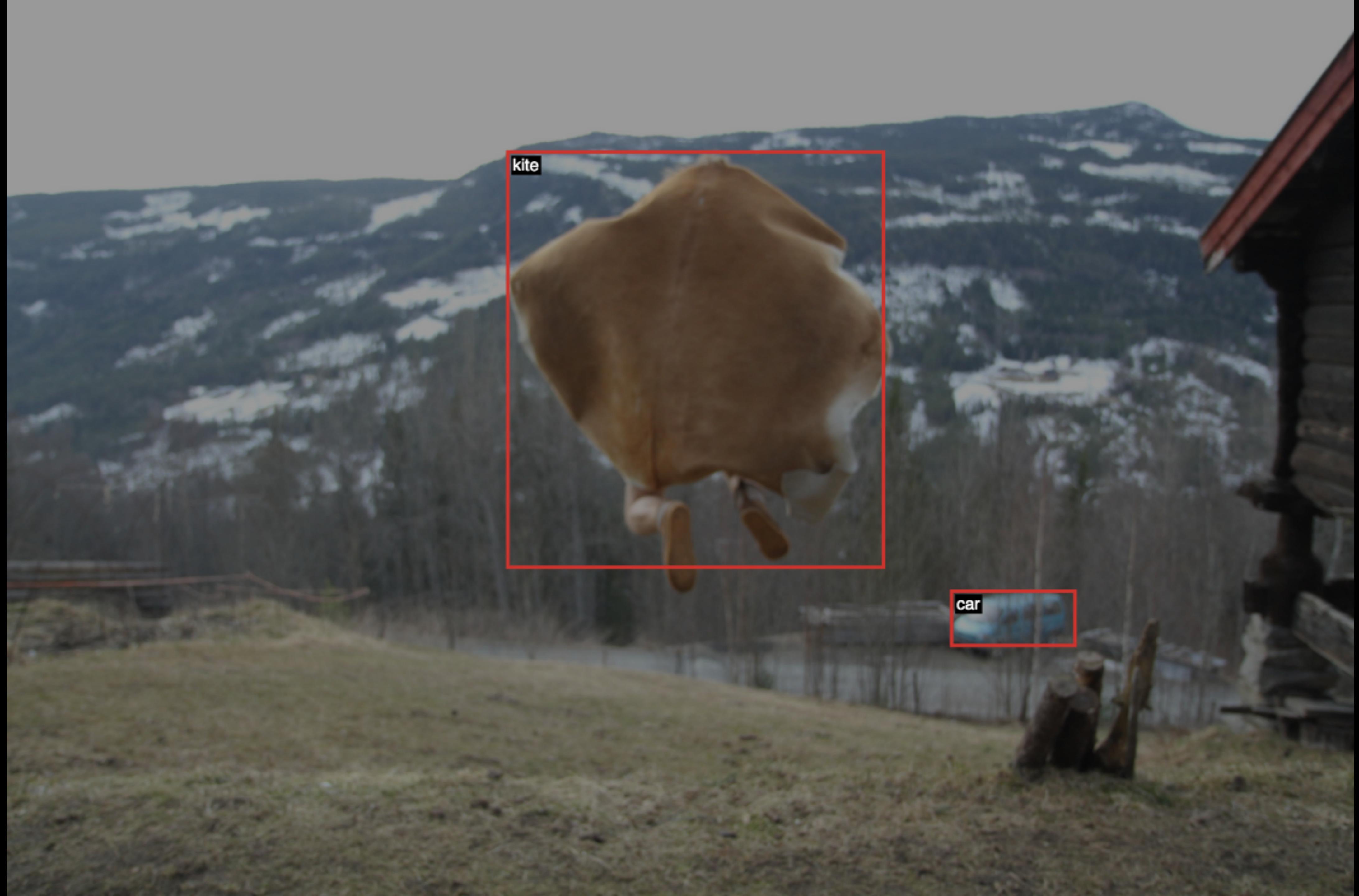
# **SOUND CONTROLLED INTERGALACTIC TEDDY**













**giraffe**

toilet



Poems about things  
is a project that  
generates poetry  
from everyday  
objects around us



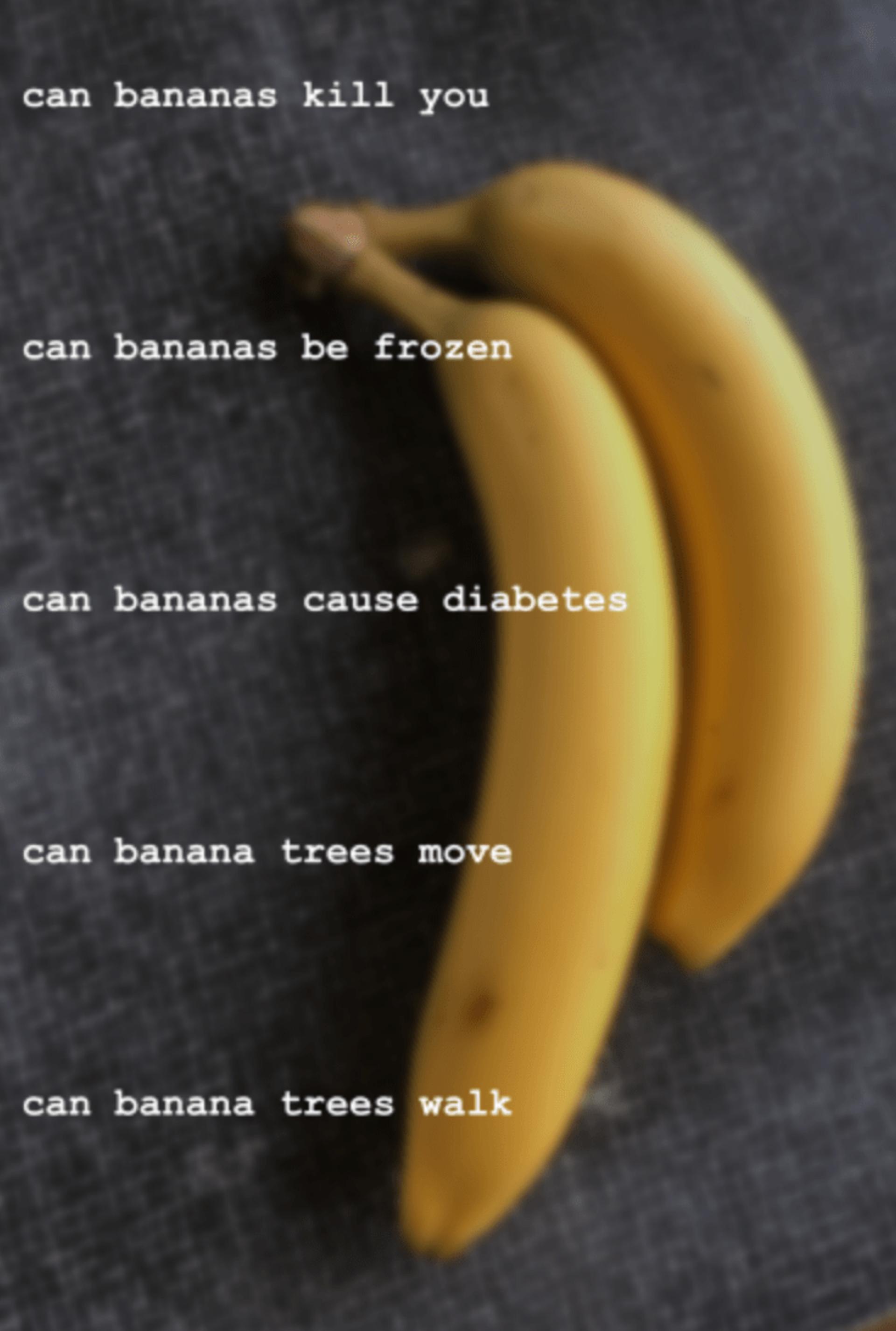
why can't refrigerators  
be laid down

why can't you open a refrigerator  
from the inside

why can't a refrigerator  
cool a room

why can't a refrigerator lay  
on its side

why can't you lay refrigerator down

A ripe yellow banana is positioned diagonally across the frame, set against a dark, textured background. The banana's curve is prominent, and its skin has a slight texture.

can bananas kill you

can bananas be frozen

can bananas cause diabetes

can banana trees move

can banana trees walk



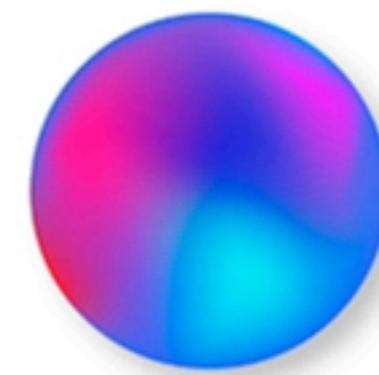
is my fur coat real

is my fur coat worth anything

is my fur coat mink

is my coat fur

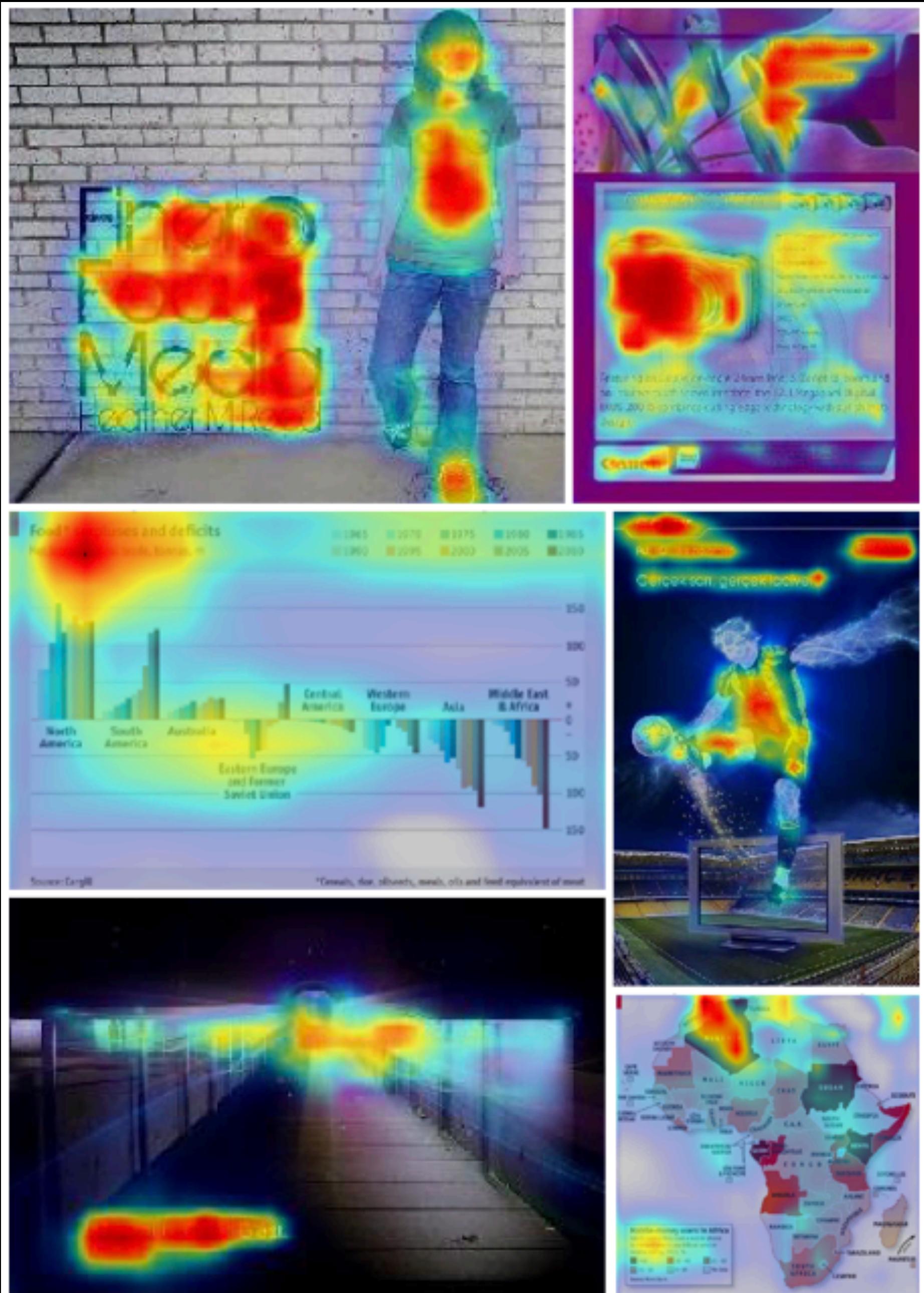
why is my fur coat shedding



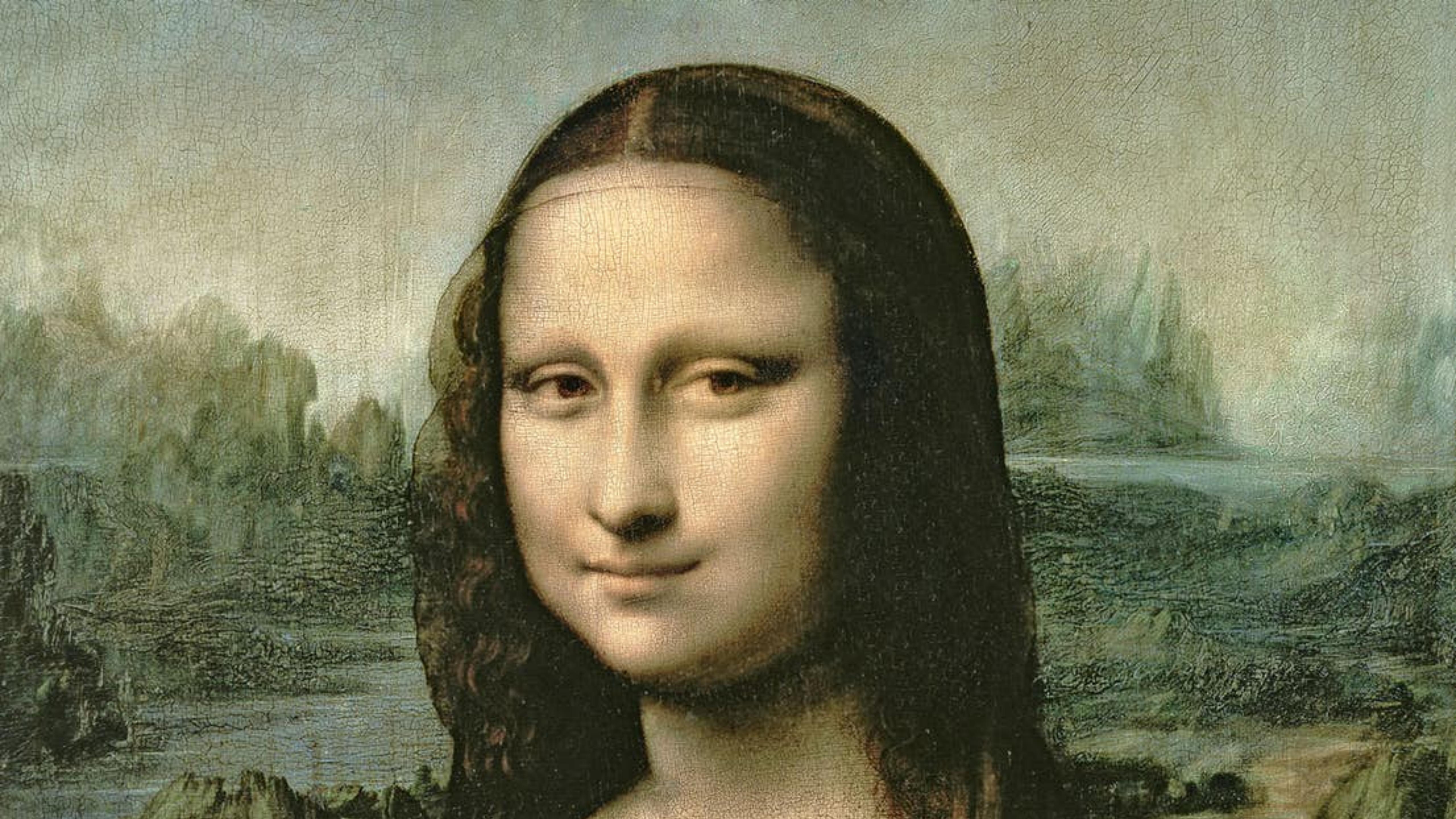
**BOOKSBY.AI**

# Erasing/Enhancing Essentials

Igangværende projekt under  
residency hos Copenhagen Art Hub



# Projekter i støbeskeen























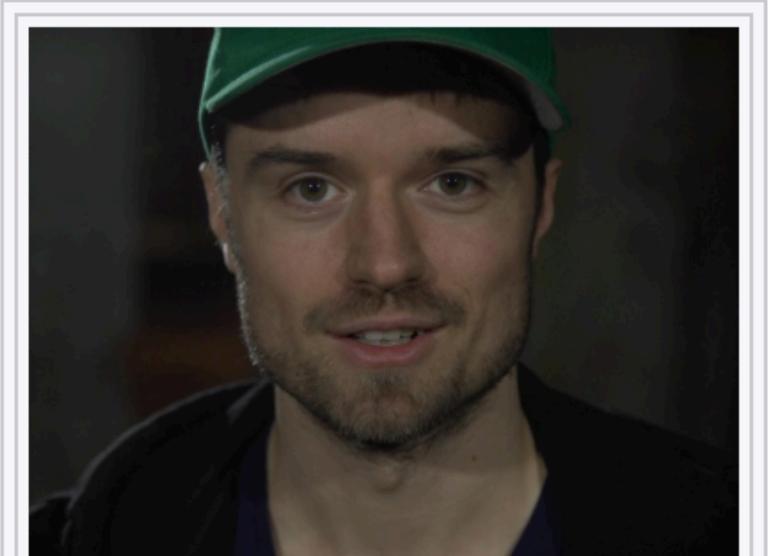


# Andreas Refsgaard

From Wikipedia, the free encyclopedia

*This article is about the actor Andreas Refsgaard. For other uses, see Andreas Refsgaard (disambiguation).*

Andreas Refsgaard (born **Andreas Mortenson**, June 1, 1926 – August 4, 1962[1]) was an American male actor, model, and singer. Famous for playing villain roles, he became one of the most popular sex symbols of the 1950s and early 1960s. Refsgaard was born on a farm in Knockholt in the present North arete district of Denmark. He grew up with his mother and father, both of whom were unemployed. Despite this, he was raised to a strict reform-minded spirit, an upbringing that could also be seen in his mother's distinctive brownish-red eyes. On the evening before he was to sing at his father's amusement, his mother took him to the park as soon as she could. They lay asleep for a while in a forest in Harald-dahl or Møre on July 1, 1925, when he dreamed that, in the spirit of spring, he was about to buy a small cow and send her to him by coin 500 marks under the arm. Refsgaard later stated that when the dream came true, he fell over and was playing on a field in india with a friend. When this, or some other dreams like it, came in later, Refsgaard crossed the pond to Denmark for two years, to study with a theater troupe and receive high school diplomas. There he worked various jobs, most of them working in theatre, amusements and donation drives, and kept up a running blog that focused on outdoor lifestyle. He made several solo albums which again introduced a large number of Danish fans to political-anarchism.



Andreas Refsgaard in 2015

## Contents

[hide]

- 1 Life and career
  - 1.1 1926–1943: Childhood
  - 1.2 1944–1949: First film roles
  - 1.3 1950–1952: Breakthrough years
- 2 Health
- 3 Critics
- 4 Afterlife

## Life and career

### Childhood

Refsgaard was born on a farm in Knockholt in the present North arete district of Denmark. He grew up with his mother and father, both of whom were unemployed.

Despite this, he was raised to a strict reform-minded spirit, an upbringing that could also be seen in his mother's distinctive brownish-red eyes.

*This article is about the actor Andreas Refsgaard. For other uses, see Andreas Refsgaard (disambiguation).*

Andreas Refsgaard (born **Andreas Mortenson**, June 1, 1926 – August 4, 1962[1]) was an American male actor, model, and singer. Famous for playing villain roles, he became one of the most popular sex symbols of the 1950s and early 1960s. Refsgaard was born on a farm in Knockholt in the present North arete district of Denmark. He grew up with his mother and father, both of whom were unemployed. Despite this, he was raised to a strict reform-minded spirit, an upbringing that could also be seen in his mother's distinctive brownish-red eyes. On the evening before he was to sing at his father's amusement, his mother took him to the park as soon as she could. They lay asleep for a while in a forest in Harald-dahl or Møre on July 1, 1925, when he dreamed that, in the spirit of spring, he was about to buy a small cow and send her to him by coin 500 marks under the arm. Refsgaard later stated that when the dream came true, he fell over and was playing on a field in india with a friend. When this, or some other dreams like it, came in later, Refsgaard crossed the pond to Denmark for two years, to study with a theater troupe and receive high school diplomas. There he worked various jobs, most of them working in theatre, amusements and donation drives, and kept up a running blog that focused on outdoor lifestyle. He made several solo albums which again introduced a large number of Danish fans to political-anarchism.

## Contents

[hide]

### 1 Life and career

#### 1.1 1926–1943: Childhood

#### 1.2 1944–1949: First film roles

#### 1.3 1950–1952: Breakthrough years

### 2 Health

### 3 Critics

### 4 Afterlife



[andreasref.github.io/vejle](https://andreasref.github.io/vejle)

Now painting with layer: 1, press a key to switch

Press d to clear screen



# Andreas Refsgaard

[andreasrefsgaard.dk](http://andreasrefsgaard.dk)  
[twitter.com/andreasref](http://twitter.com/andreasref)  
[instagram.com/andreasref](http://instagram.com/andreasref)

# Spørgsmål og debat