

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

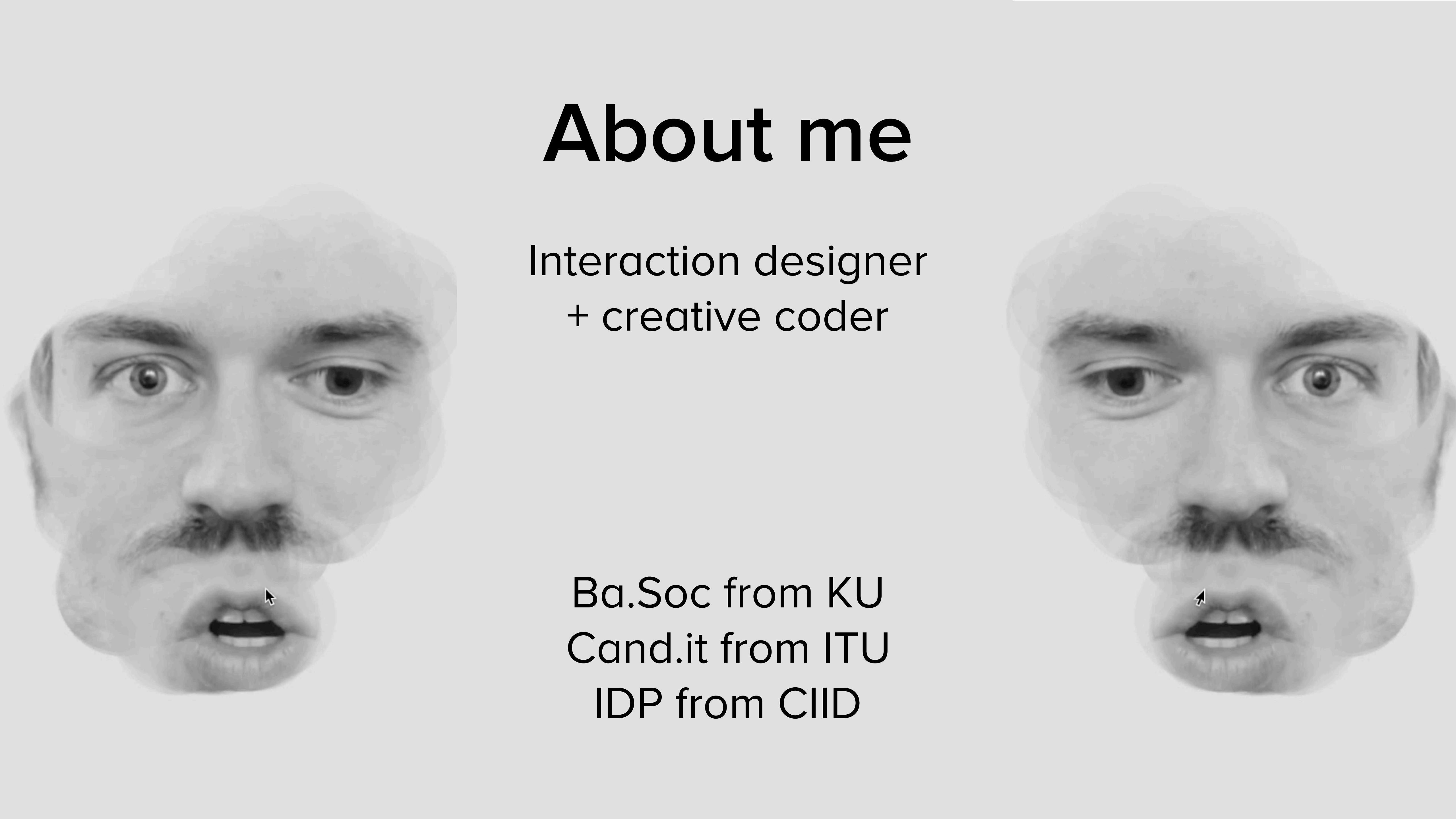
Press d to clear screen



# Andreas Refsgaard



# About me

A faded, grayscale portrait of a man with dark hair and a well-groomed mustache. He has a neutral expression and is looking directly at the viewer. This image serves as a background for the text elements.

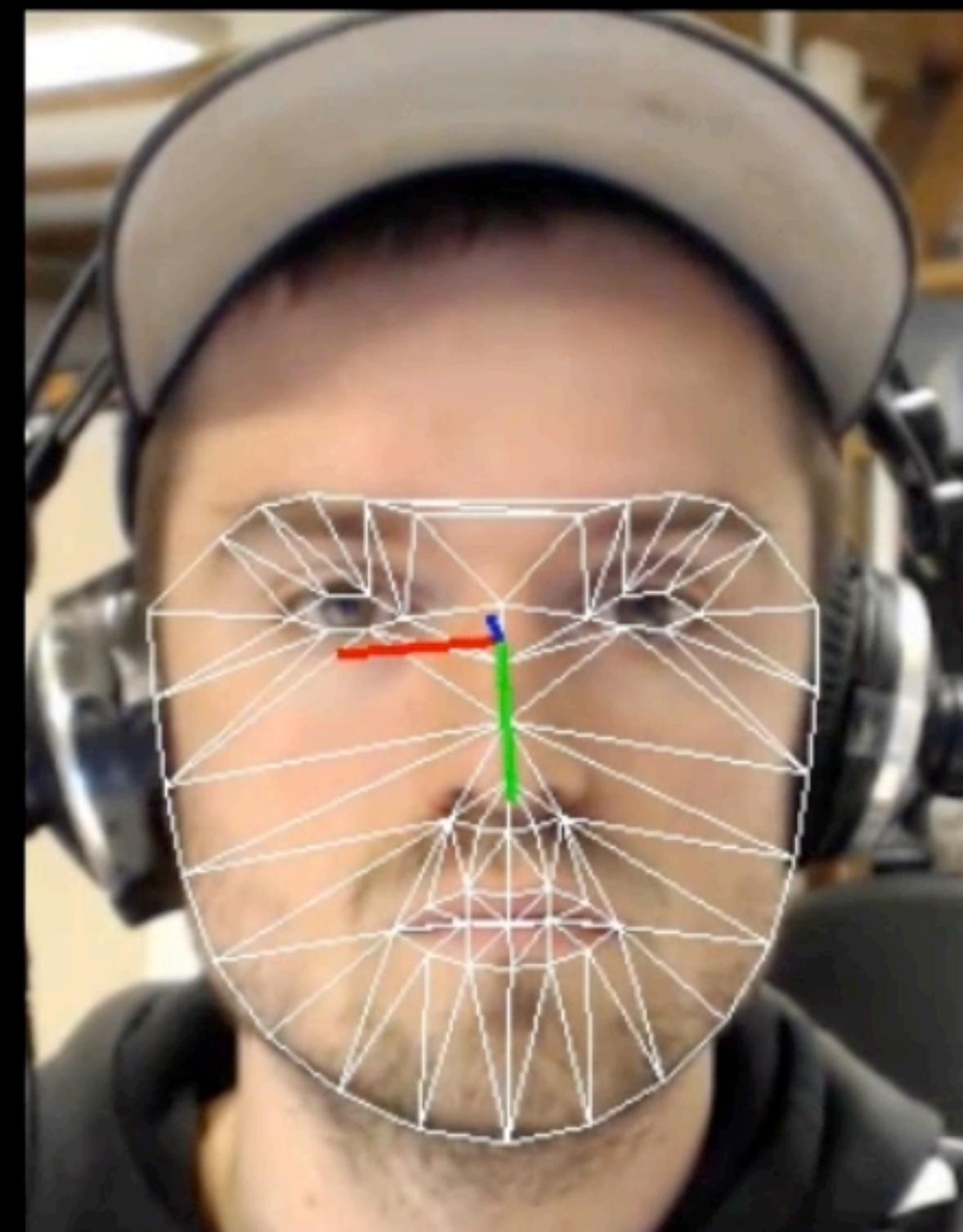
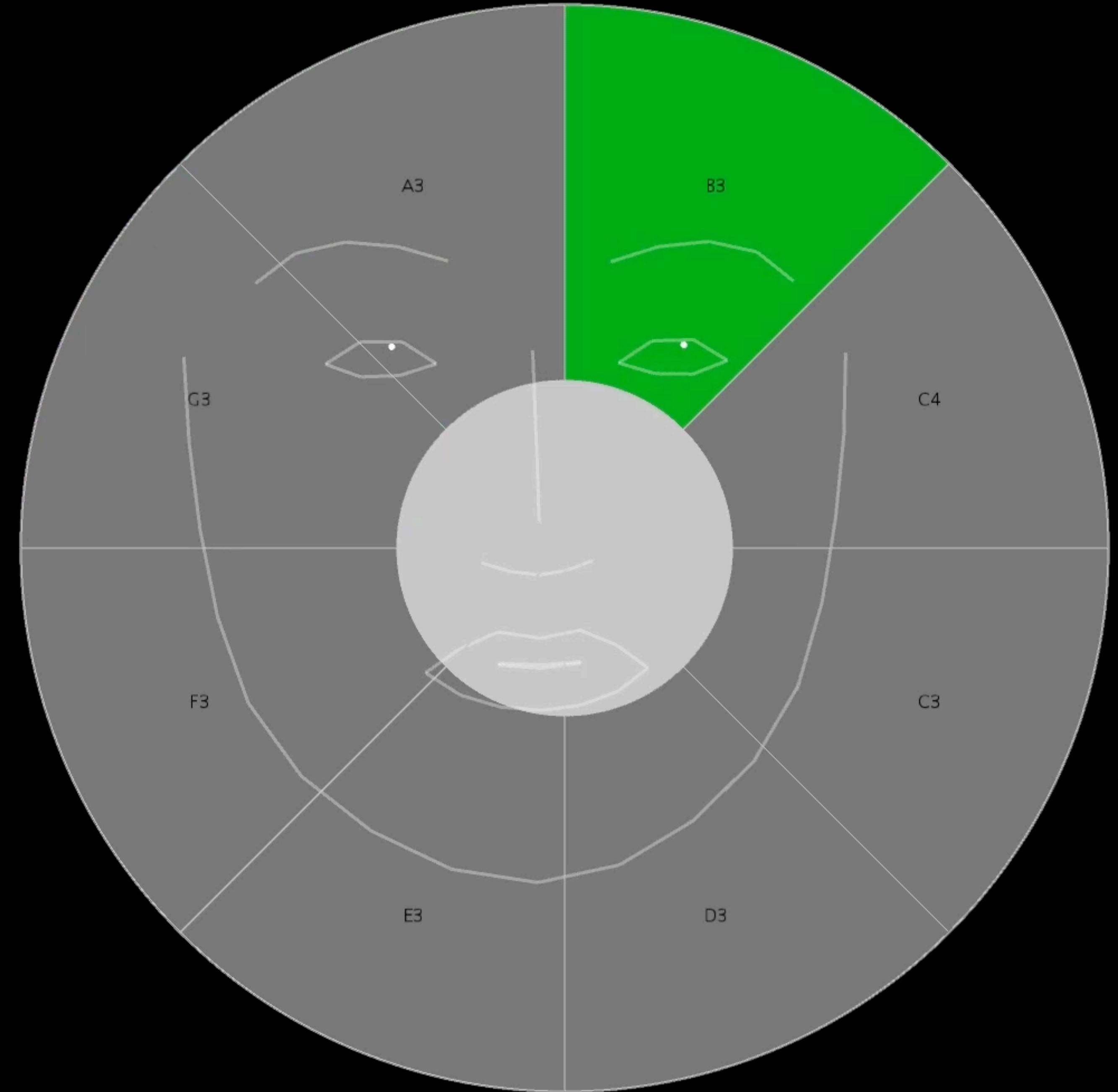
Interaction designer  
+ creative coder

Ba.Soc from KU  
Cand.it from ITU  
IDP from CIID

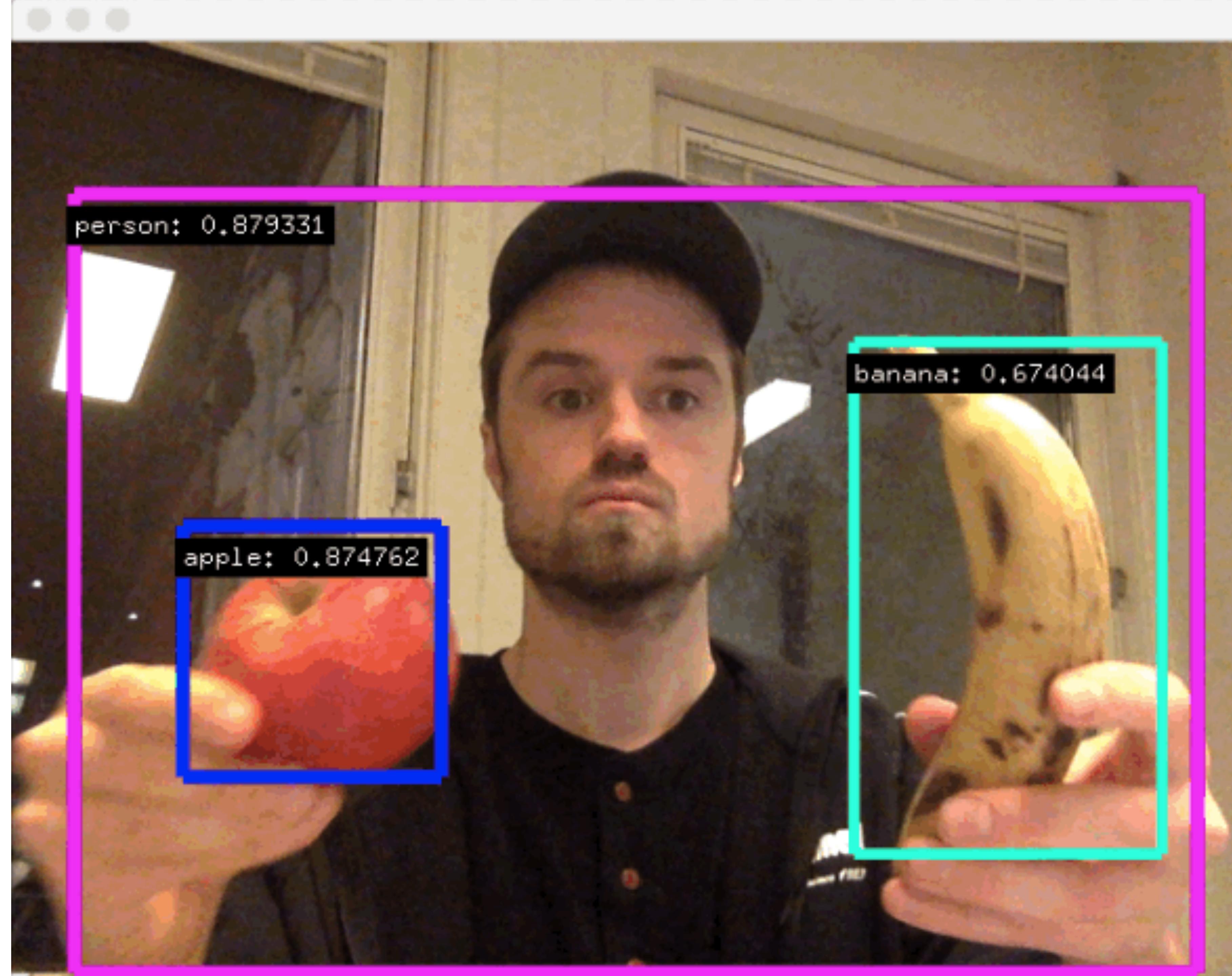
# Art, algorithms and (stupid) AI

## Hands on exercises

- 1) Teach a camera when to take photos
- 2) Let an algorithm continue your text



# Machine Learning



# Machine Learning



Wekinator File View Actions

17 73% Mon 20:46

New Project

OSC In OSC Out

Values Examples Configure

randomize

Models

outputs-1 1 66

Edit Status

Stop Recording

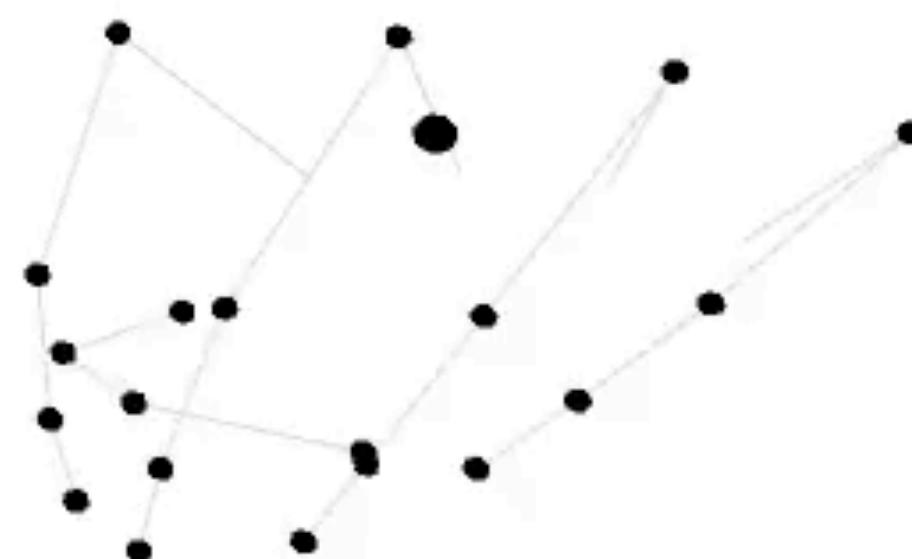
Train

Run

Delete last recording

Re-add last recording

Status: New examples recorded



# Supervised Machine Learning

Prototype without (much) code

Iterate faster

Let users train and decide the interactions

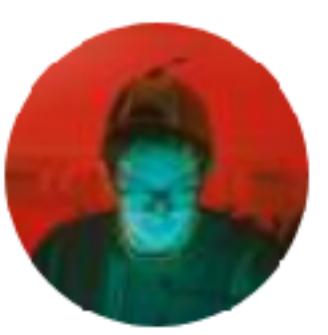
Use complex inputs



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

 Let's Go!

or [skip the tutorial](#)



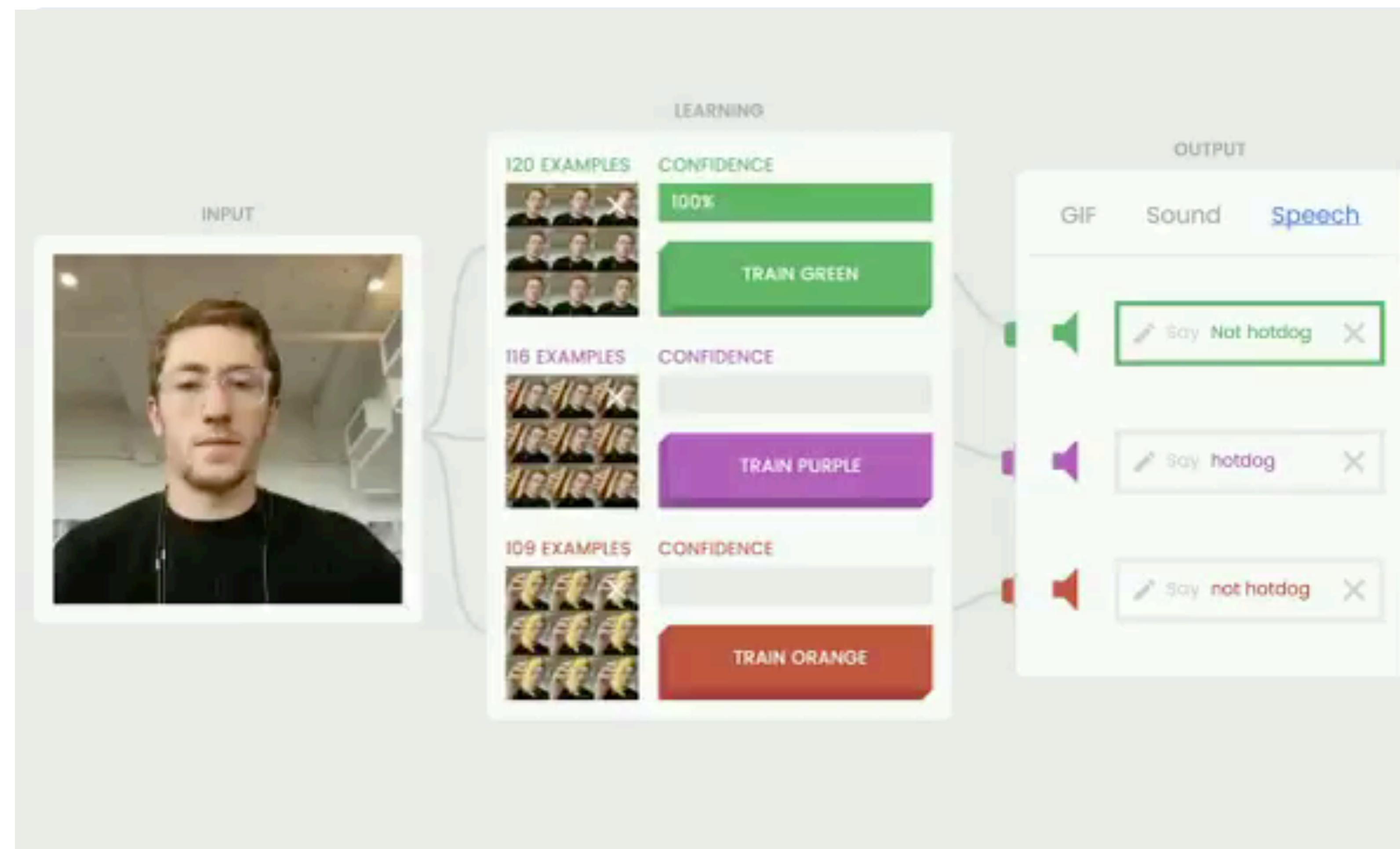
Barron

@WarronBebster

Follow

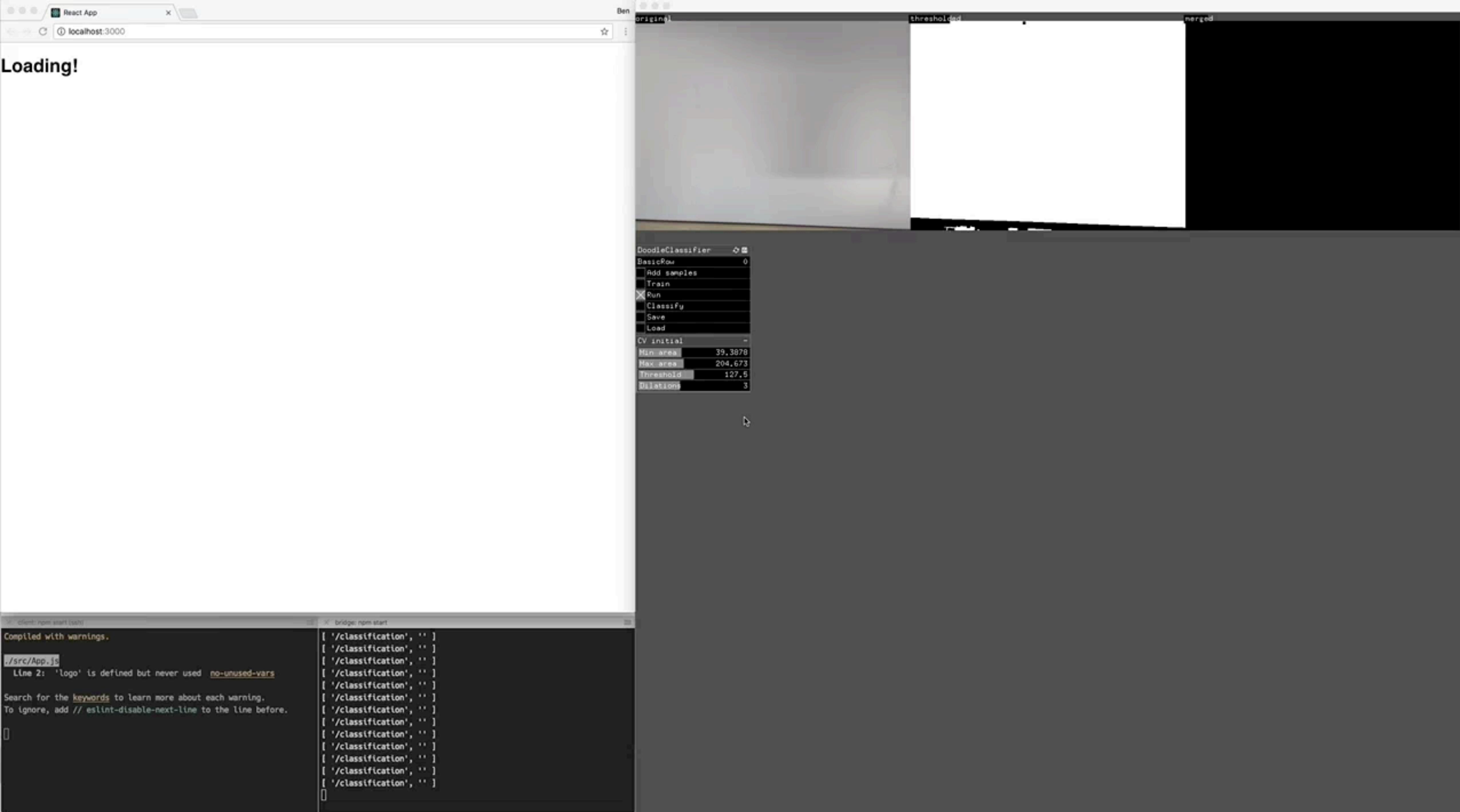


I used **#teachablemachine** to make  
**@siliconhbo's Not Hotdog app:**









# IS IT FUNKY?



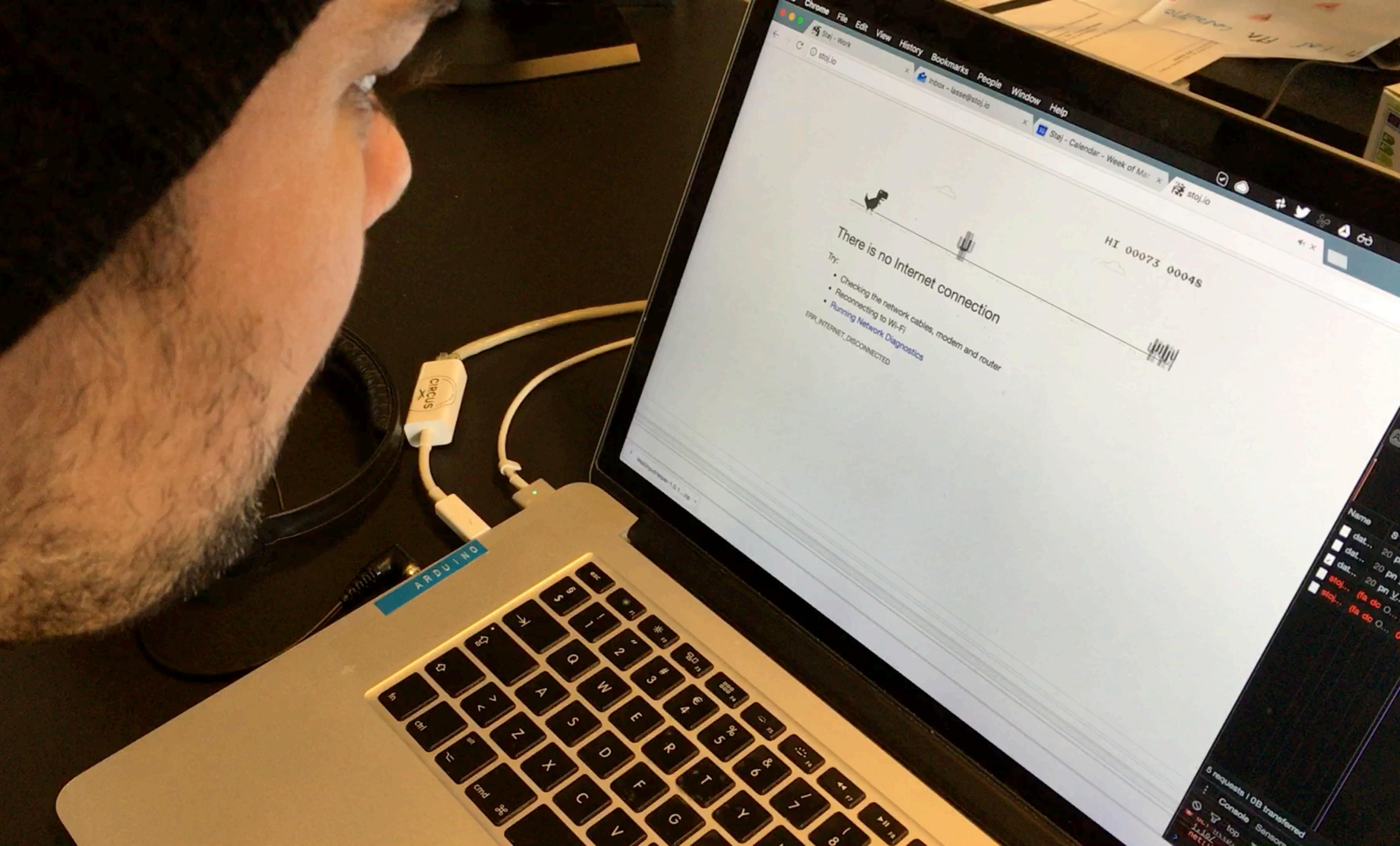
Prince

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

HI 00073 00048

Name S  
dat... 20 p  
dat... 20 p  
dat... 20 p  
stoj... fa do o  
stoj... fa do o  
o

5 requests | 0B transferred  
Console Sensors  
top  
netti  
1.1.0.1  
netti

Sound controlled  
Wolfenstein



FLOOR	SCORE	LIVES	HEALTH	AMMO
1	0	3	100%	16



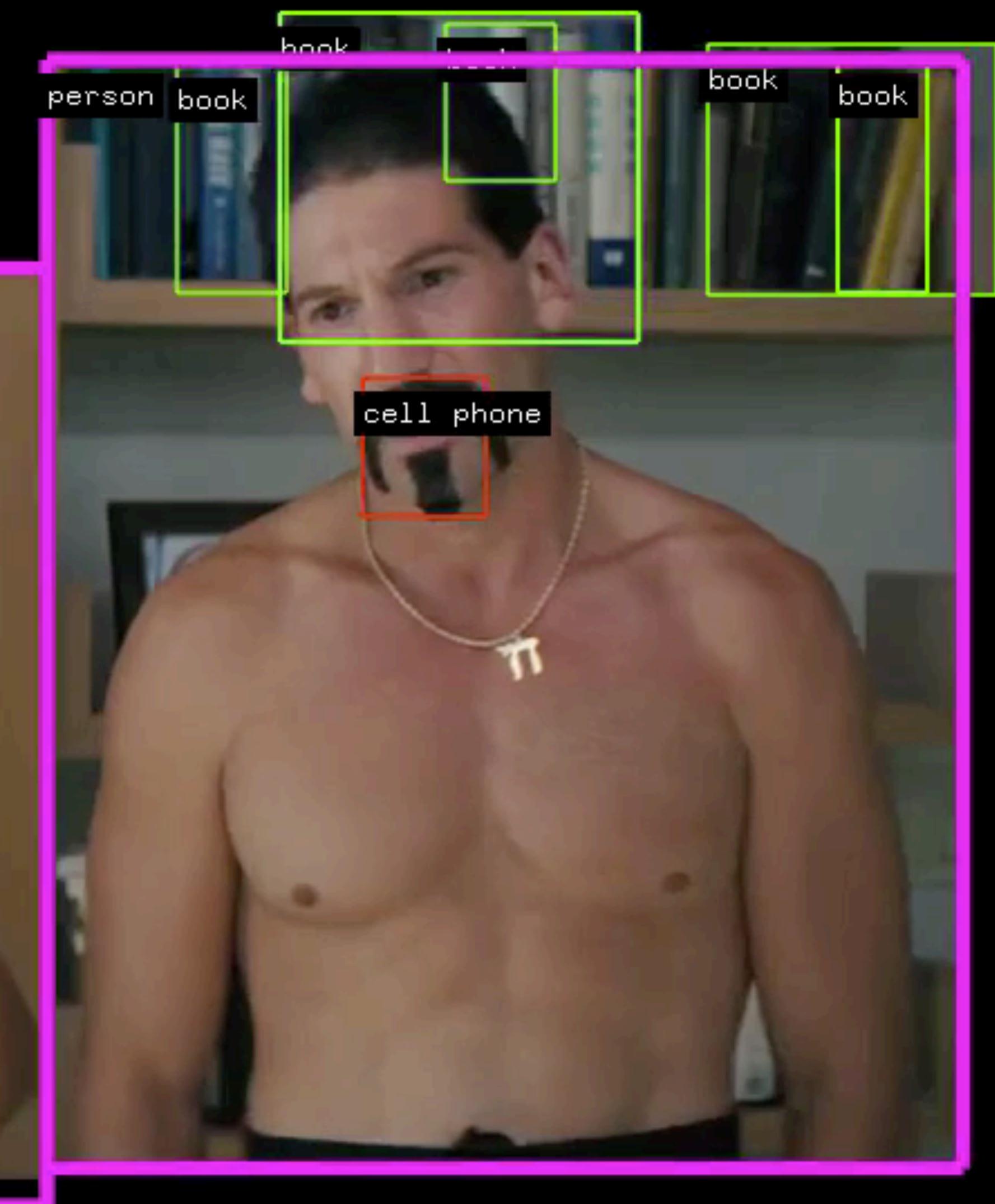
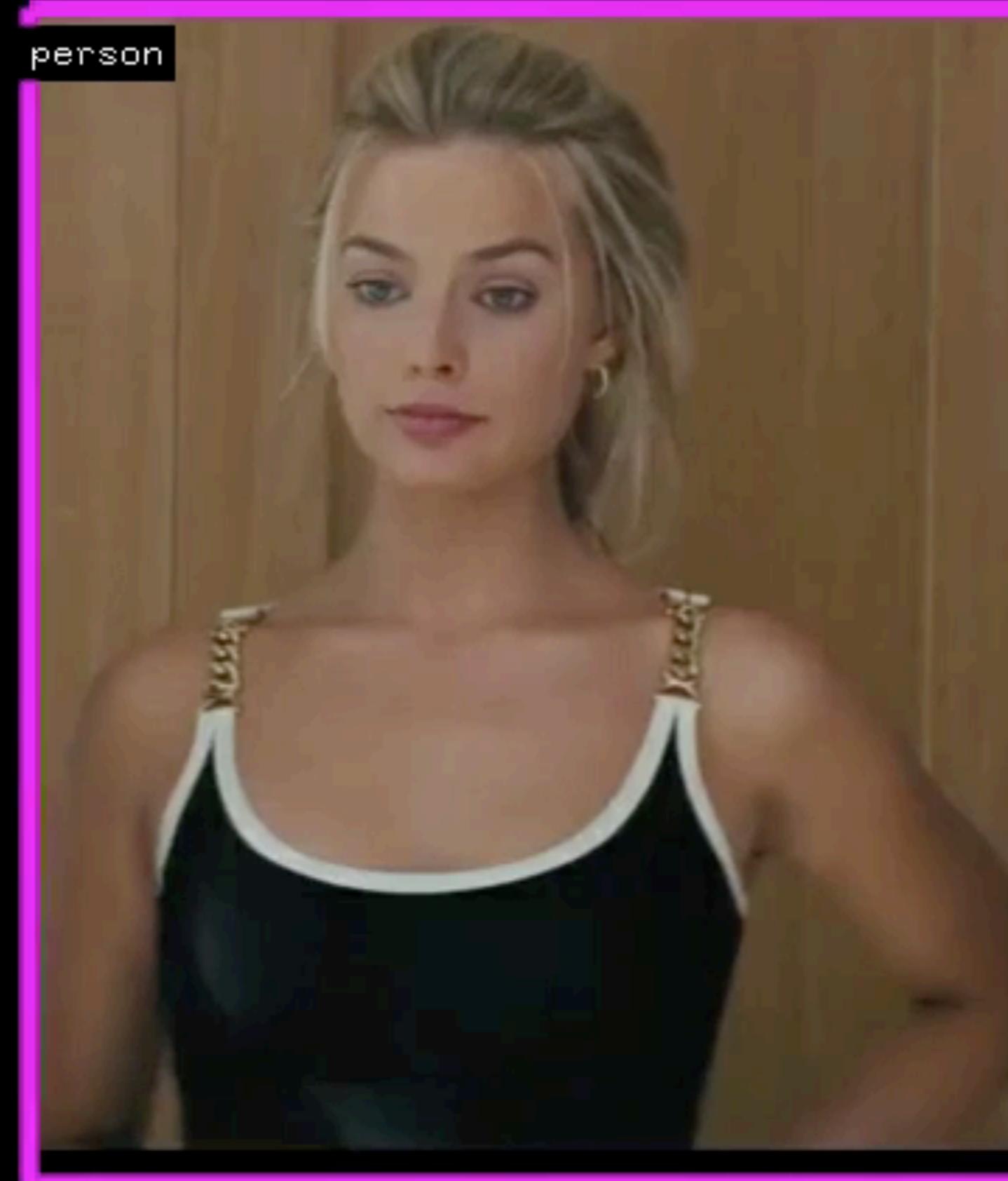
A close-up photograph of a woman's face in profile, facing right. She has dark hair and is wearing a dark top. Her gaze is directed downwards towards a smartphone she is holding. The background is blurred, showing what appears to be a city street.

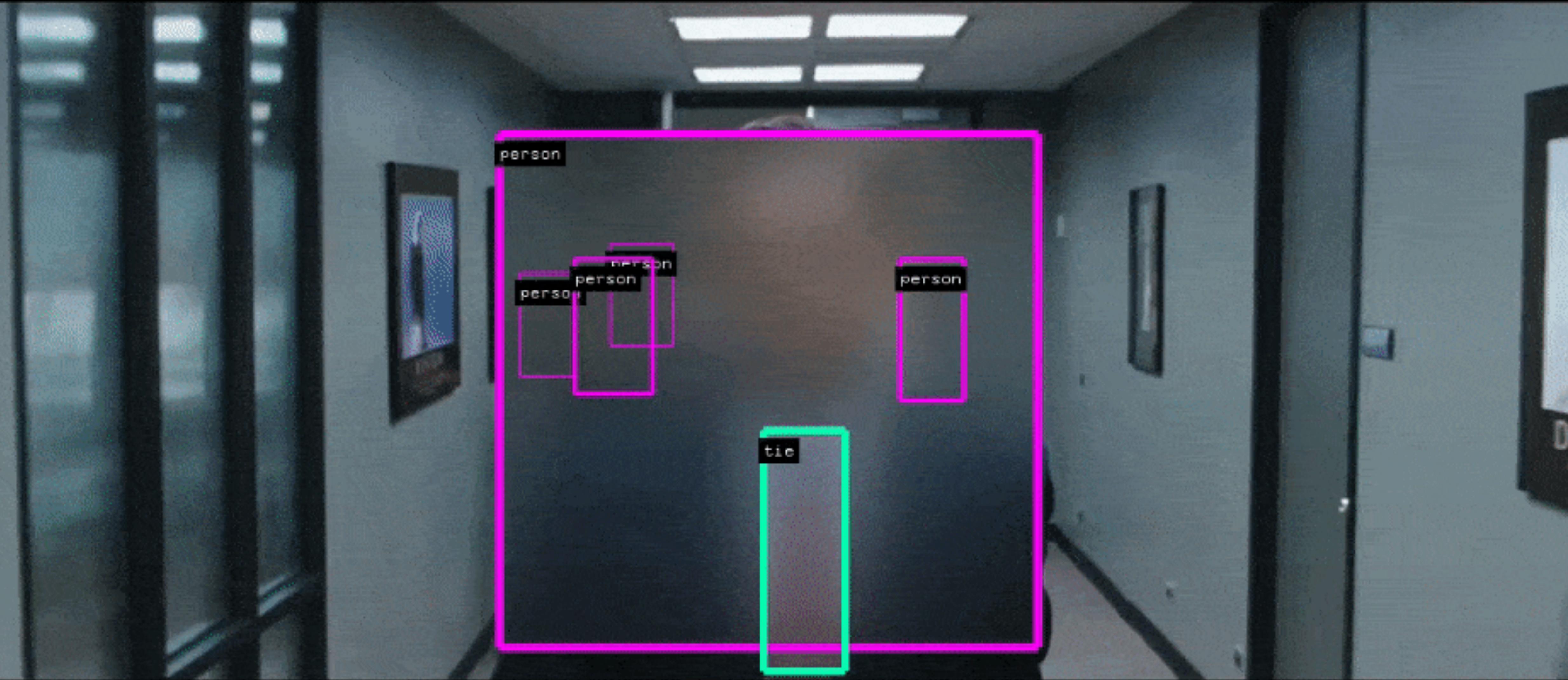
Future Self : 3rd July, 2021

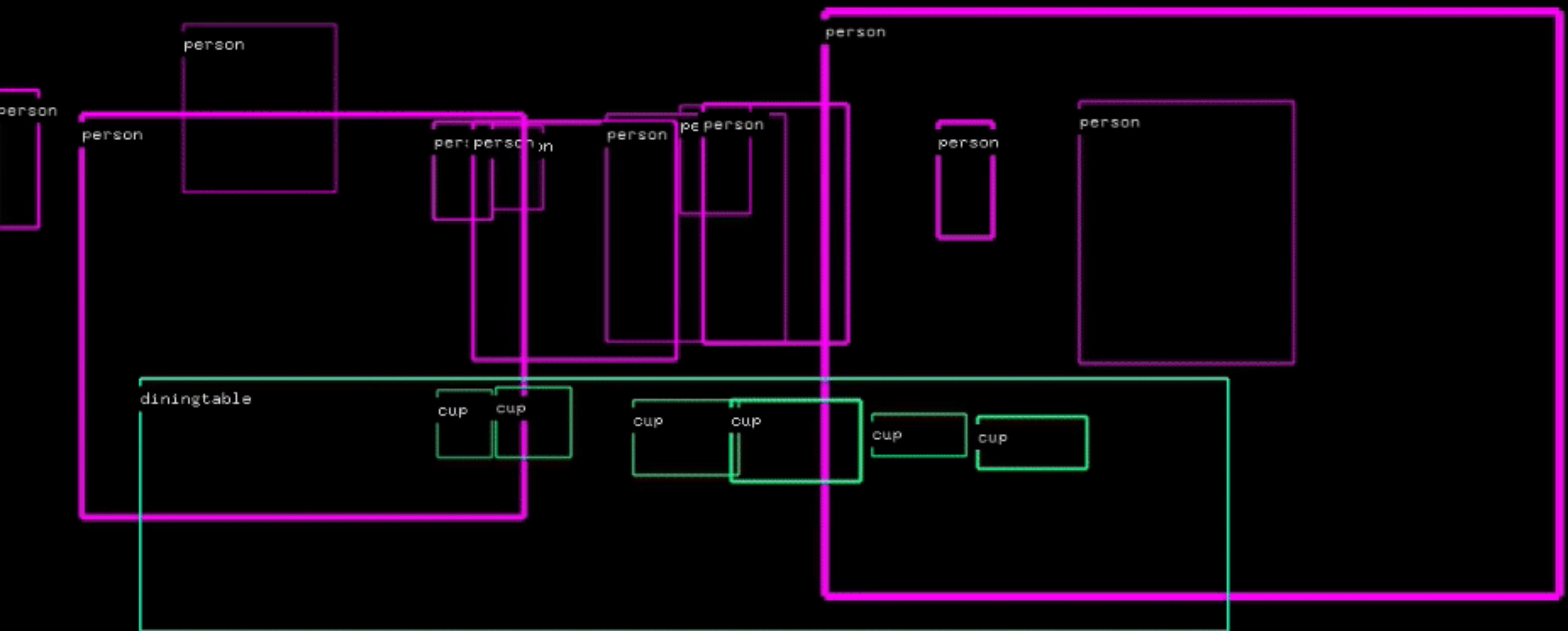
# Non-interactive works

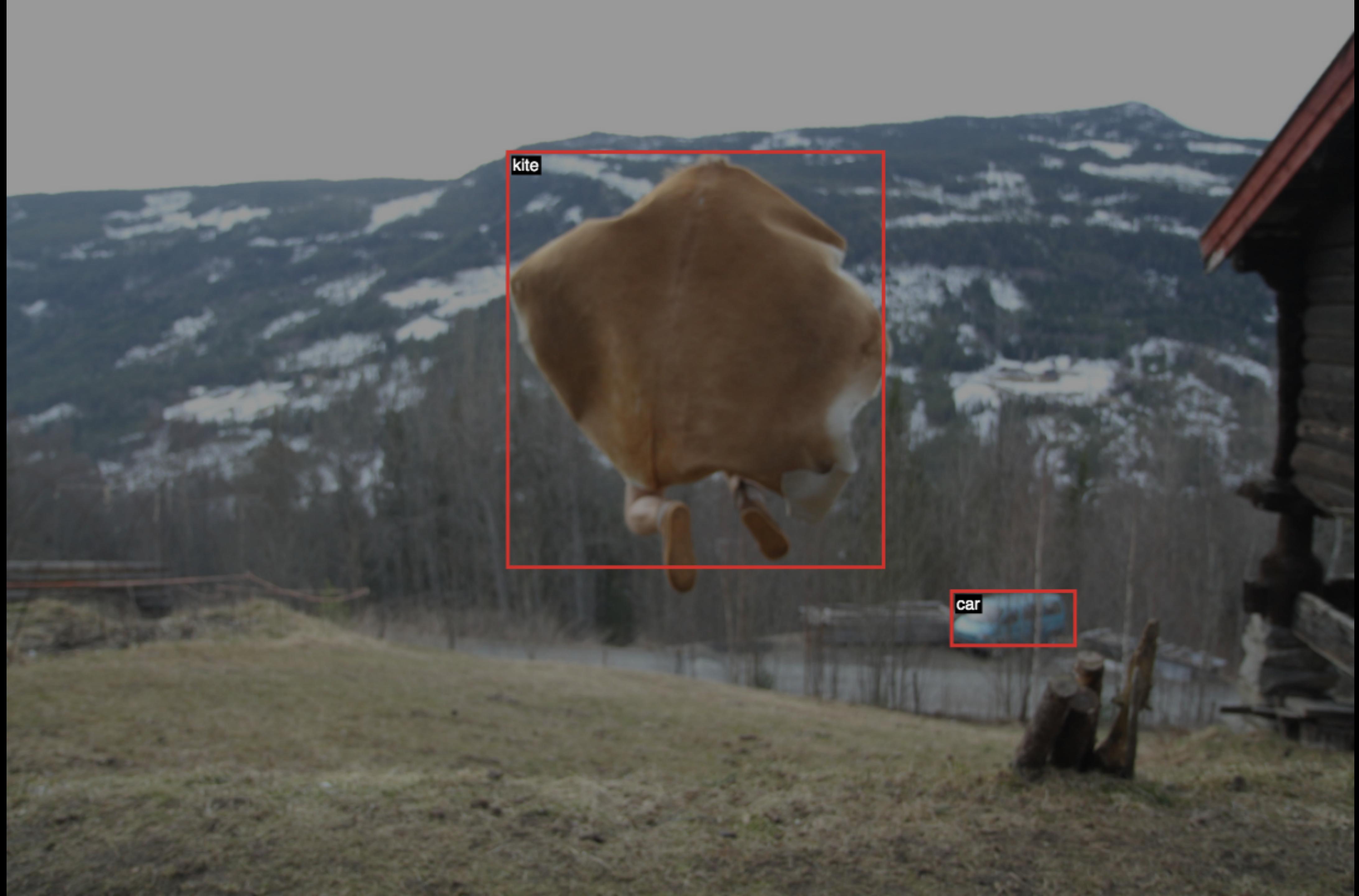


3%  
Cavities Ris







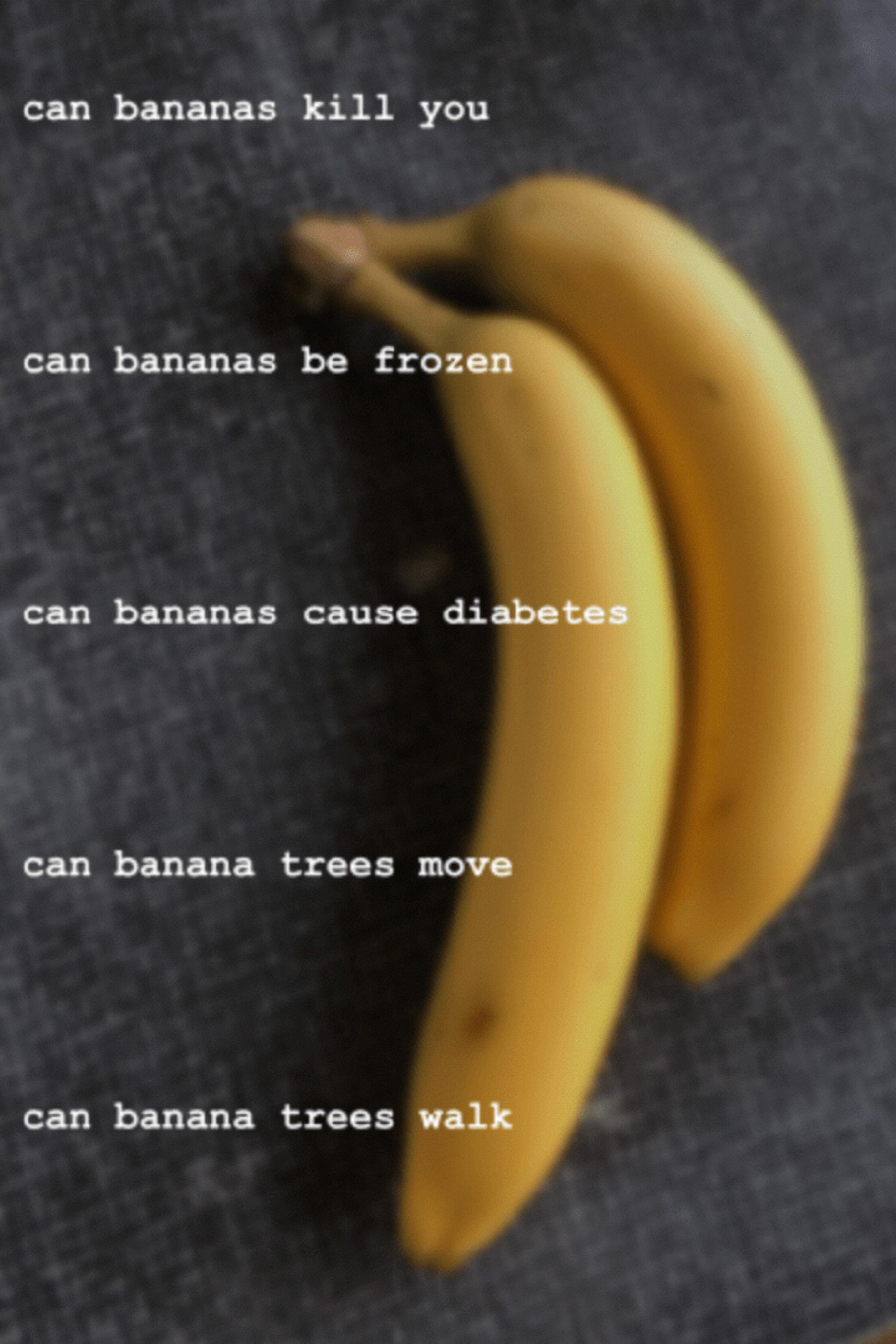


toilet



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



A close-up photograph of two ripe bananas against a dark background. The bananas are curved and have a bright yellow color with some green at the stems. They are positioned diagonally across the frame.

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

# The story of the keyboard, the tvmonitor and the person

In a land far far away once lived a keyboard, a tvmonitor and a person. The story began when a sick man went to his friend in another country to ask for a pill. A fortune-teller gave the sick man a heart transplant, but the man was skeptical of the choice and turned down the advice. A more rational friend arrived and gave the man a pharmaceutical pill called "the tvmonitor". The man took it with him, who has since been cured and has gone on to become a successful TV personality.

Input image



Yolo3 classes: keyboard person tvmonitor

The objects detected by the algorithm are used to create the title and beginning of the story. The rest of the story is created by XLNet.

Built using Yolo3, GPT-2, RunwayML and images from cocodataset.org

# The story of the toilet

In a land far far away once lived a toilet. One day, a servant came to help clean it. Before he could start, the whole thing sprang up into a dragon! He returned home at once. A year later, he was summoned back to the same place, where he found it was still a toilet but more powerful. He found it that too much waste in the toilet caused an explosion, killing the whole thing.

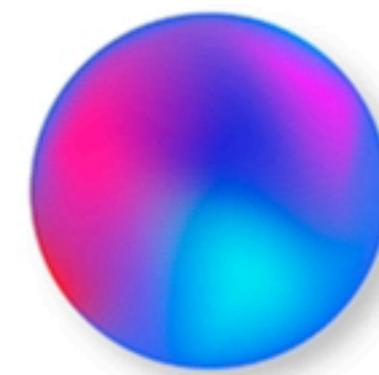
Input image



Yolo3 classes: toilet

The objects detected by the algorithm are used to create the title and beginning of the story. The rest of the story is created by XLNet.

Built using Yolo3, GPT-2, RunwayML and images from cocodataset.org



**BOOKSBY.AI**

# In algorithms we trust



# In Algorithms We Trust

On July 5th 15:30 American activist [Chelsea Manning](#) will give an exclusive talk about AI ethics and activism at Roskilde Festival, Gloria Stage.

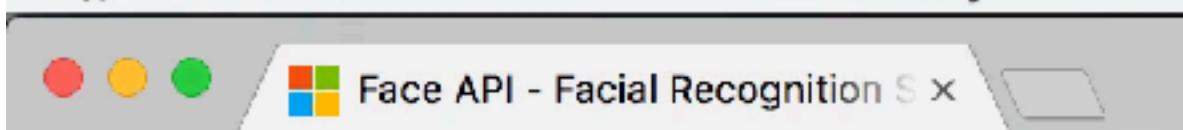
I invite you to participate in the debate, by [submitting a question](#) for Chelsea Manning to answer during her talk on stage. But before being allowed to submit your question, I will ask you to give me information about yourself.

I will use the information to assess you and your credibility by comparing your answers to my assessment of you, which is derived from an analysis of your portrait picture. To do so, I will need your permission to use your camera.

No humans will be involved in this evaluation process. You will only have a chance to get your question read aloud by the moderator, if you get a high credibility score.

Yours truly, the algorithm.

[Get started](#)



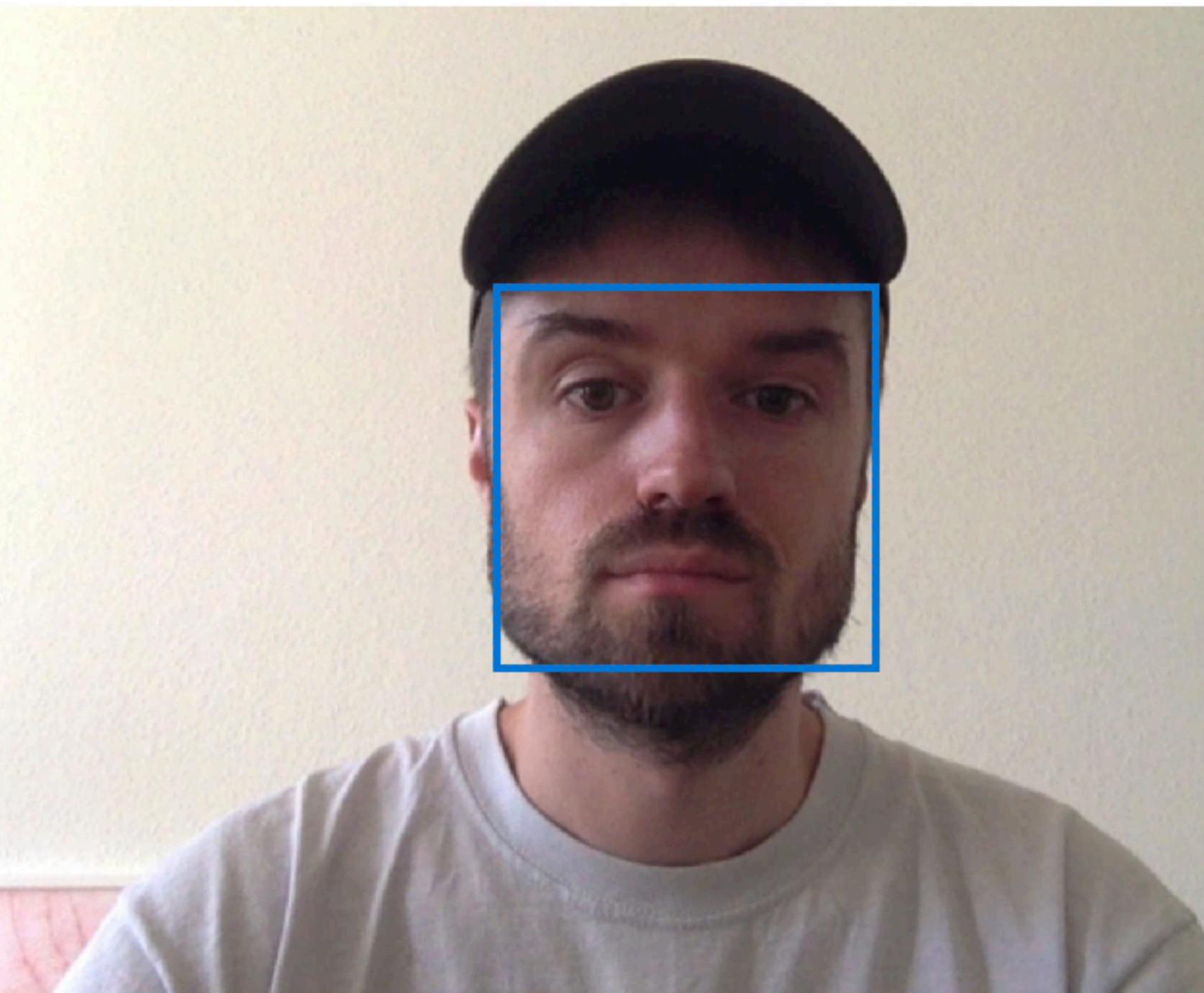
Andreas

Secure | https://azure.microsoft.com/en-us/services/cognitive-services/face/?v=18.05



Why Azure Solutions **Products** Documentation Pricing Training Marketplace Partners Support More Q Portal Free account >

See it in action



Detection result:

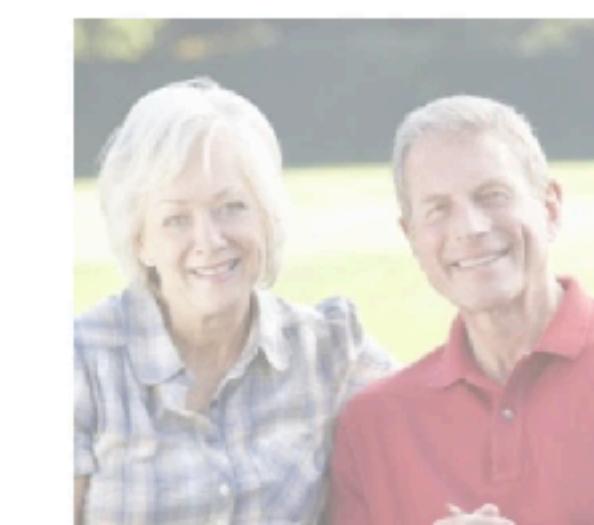
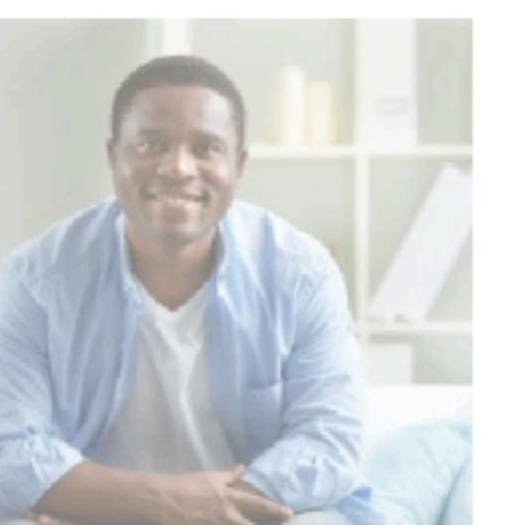
JSON:

```
[  
  {  
    "faceId": "463646bd-3ade-4a3f-bb5a-42f18f81ad88",  
    "faceRectangle": {  
      "top": 244,  
      "left": 451,  
      "width": 331,  
      "height": 331  
    },  
    "faceAttributes": {  
      "hair": {  
        "bald": 0.21,  
        "invisible": false,  
        "hairColor": [  
          {  
            "color": "black",  
            "confidence": 1.0  
          },  
          {  
            "color": "brown",  
            "confidence": 0.74  
          }  
        ]  
      }  
    }  
  }]
```

Image URL

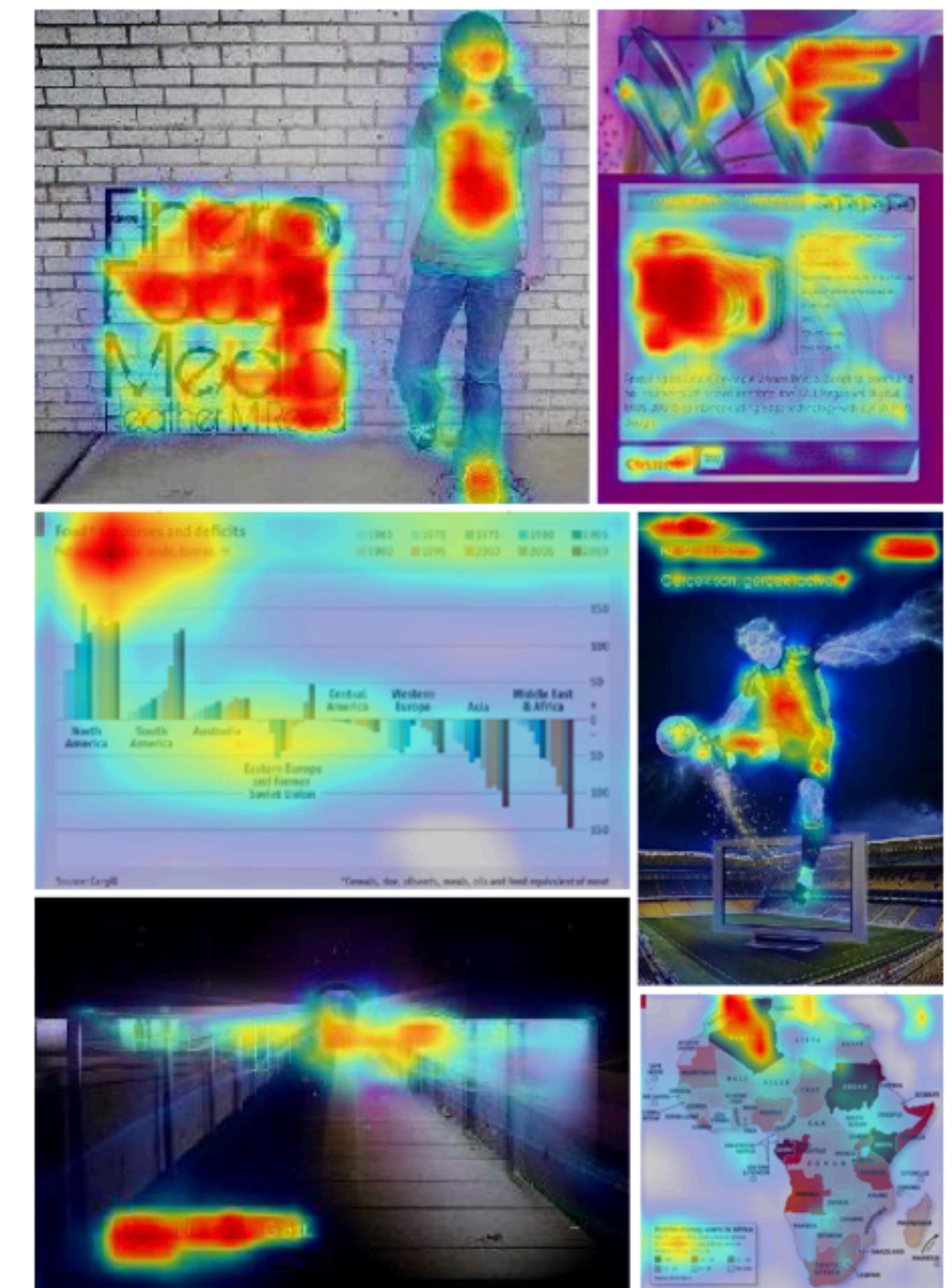
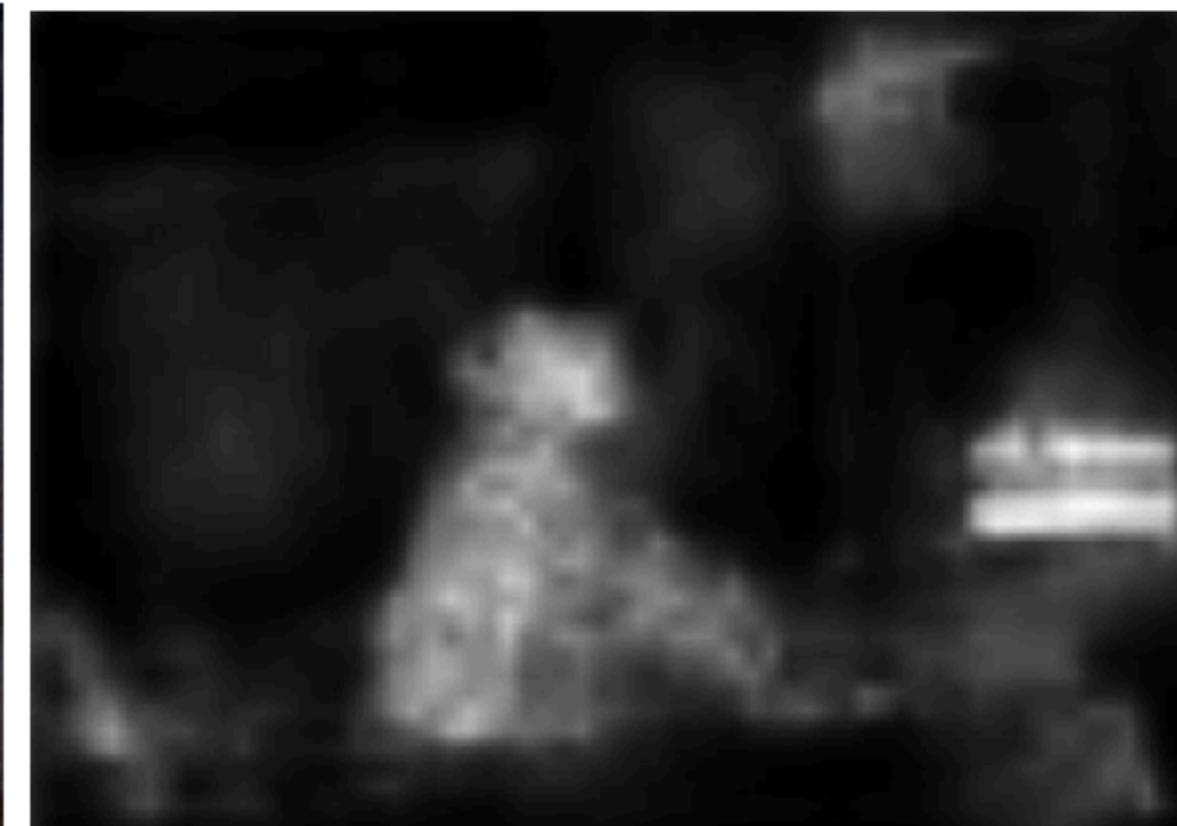
Submit

Browse

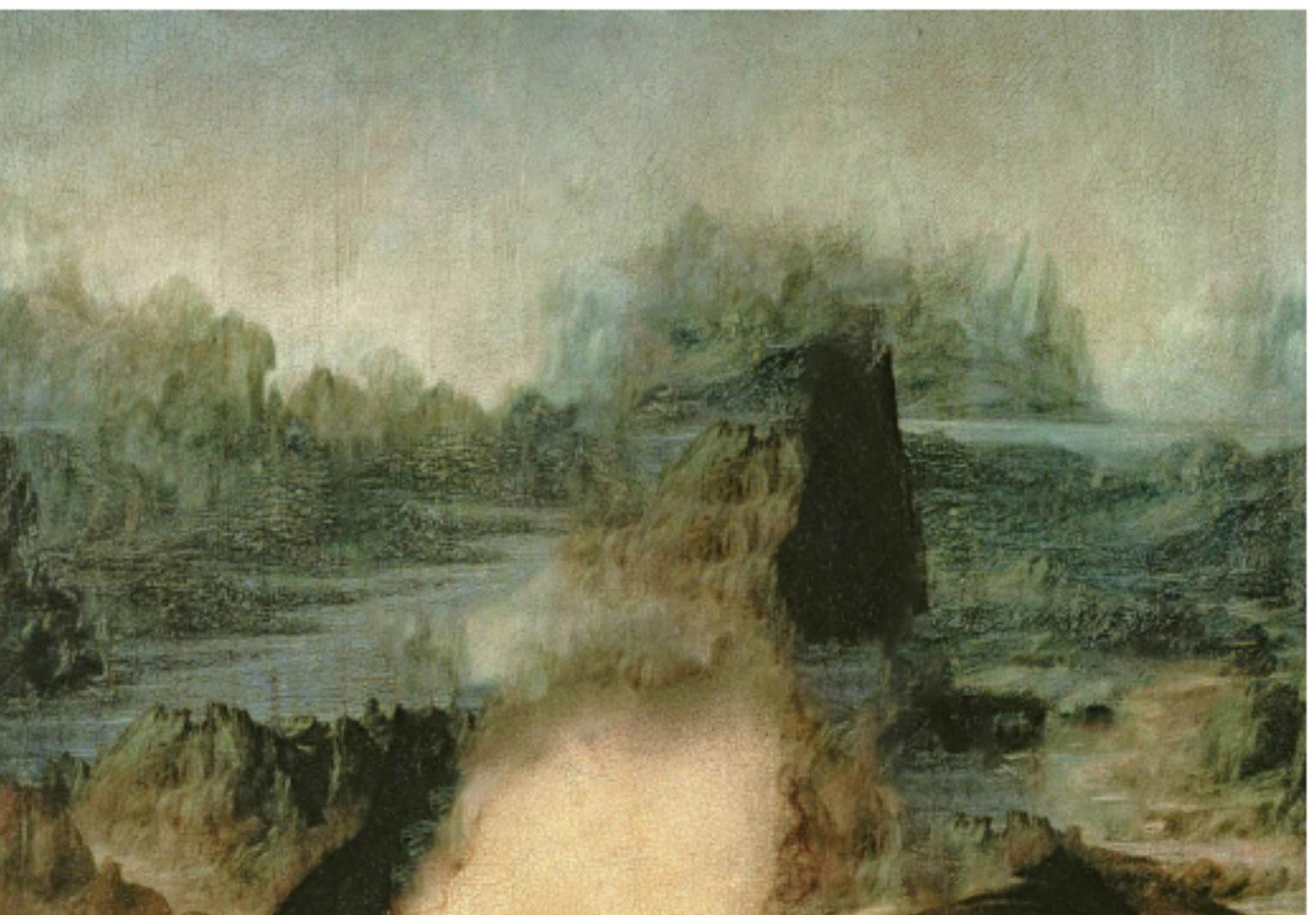


# Work in progress

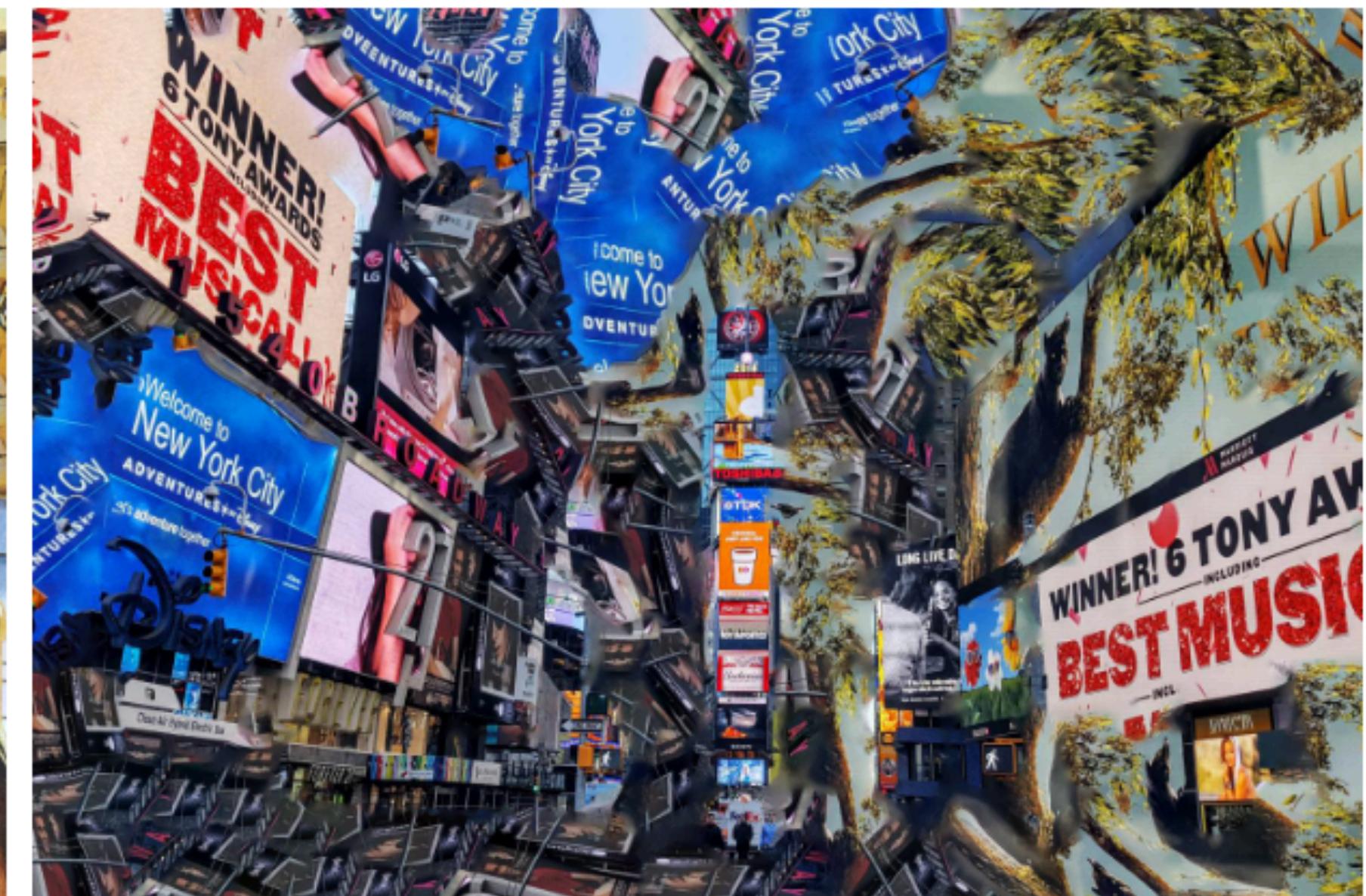
# Erasing/Enhancing Essentials



# Erasing

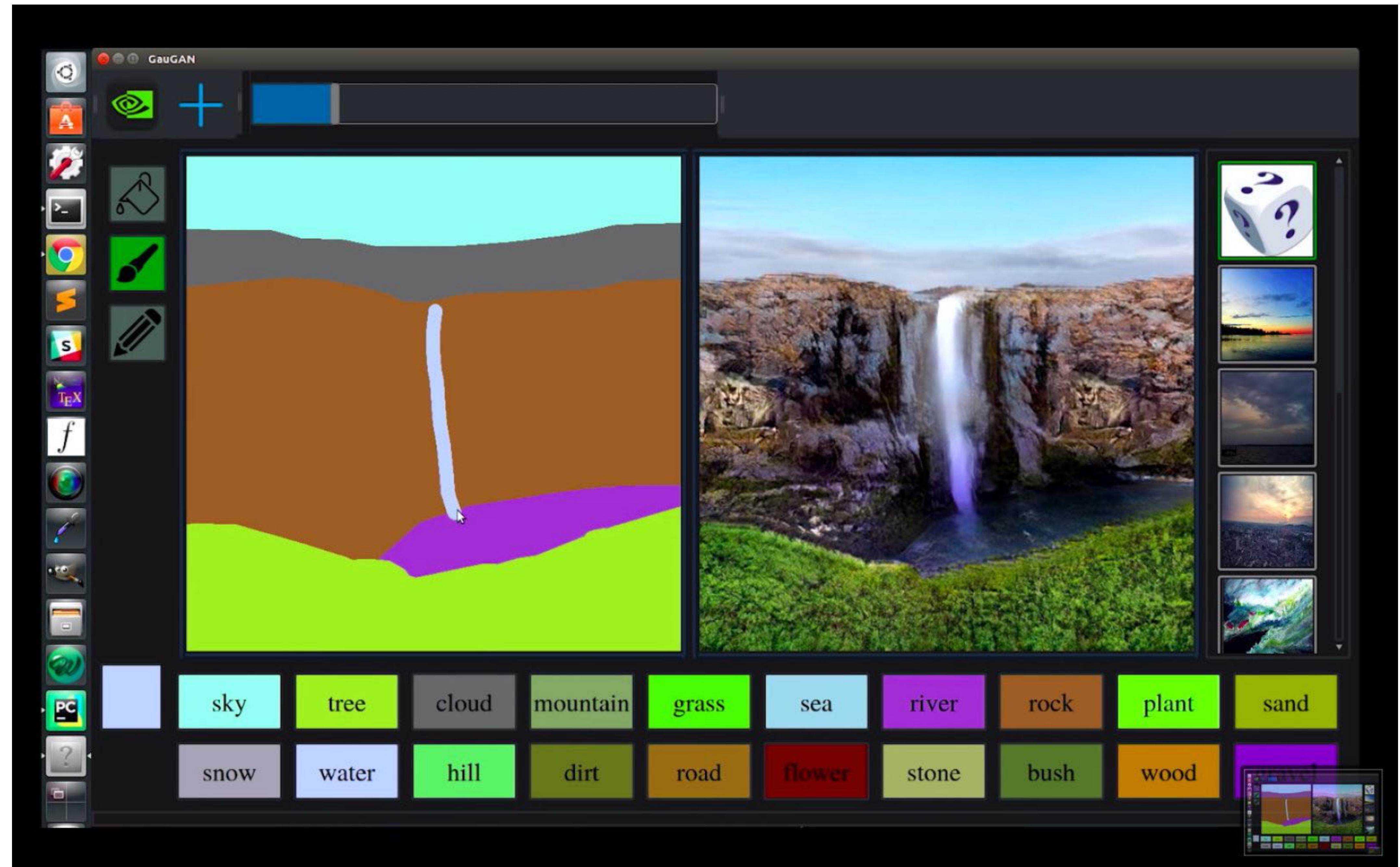


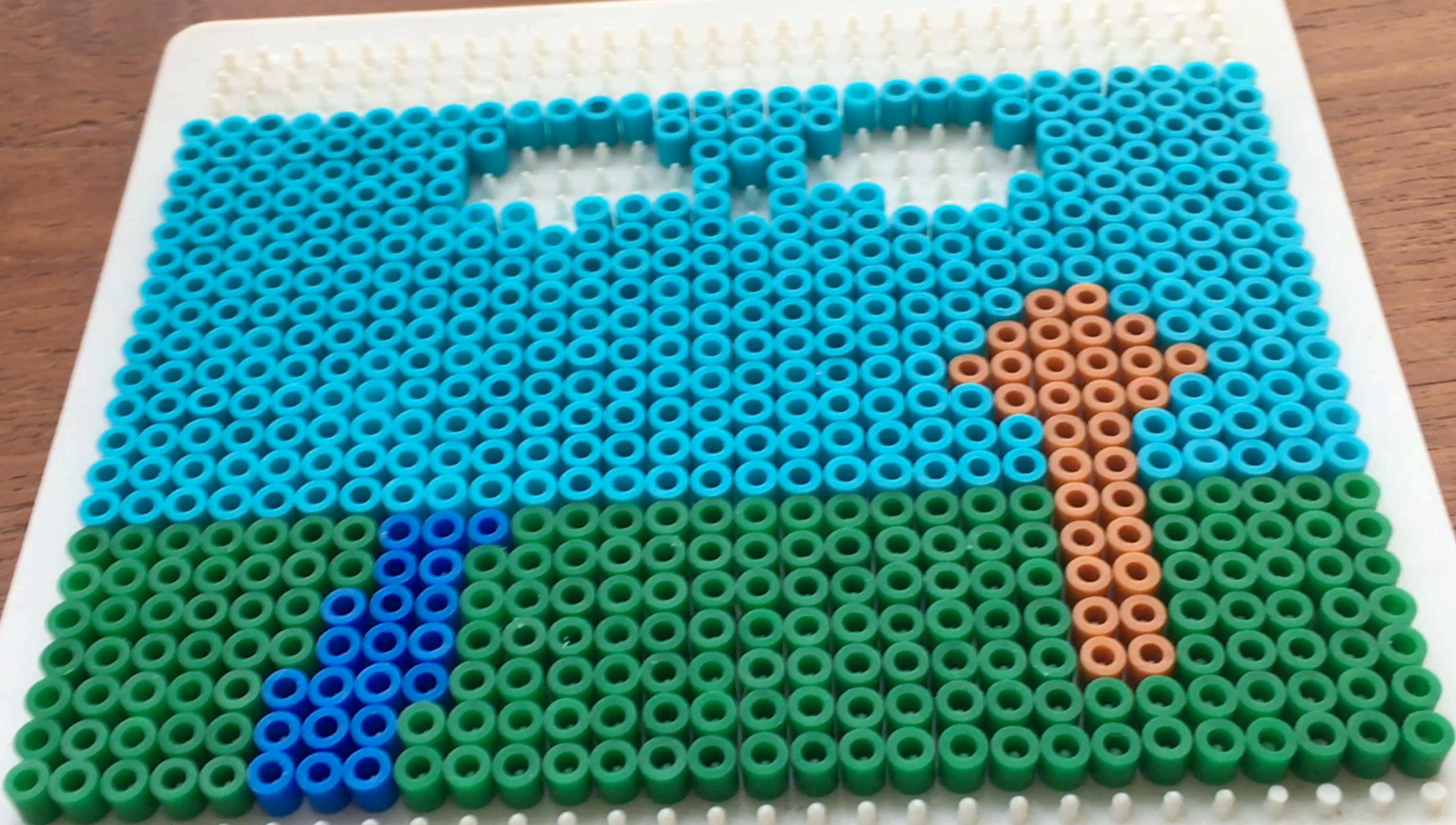
# Enhancing



# Perler beads to landscapes









matchesReversed

Hands on  
[andreasref.github.io/maw](https://andreasref.github.io/maw)

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)