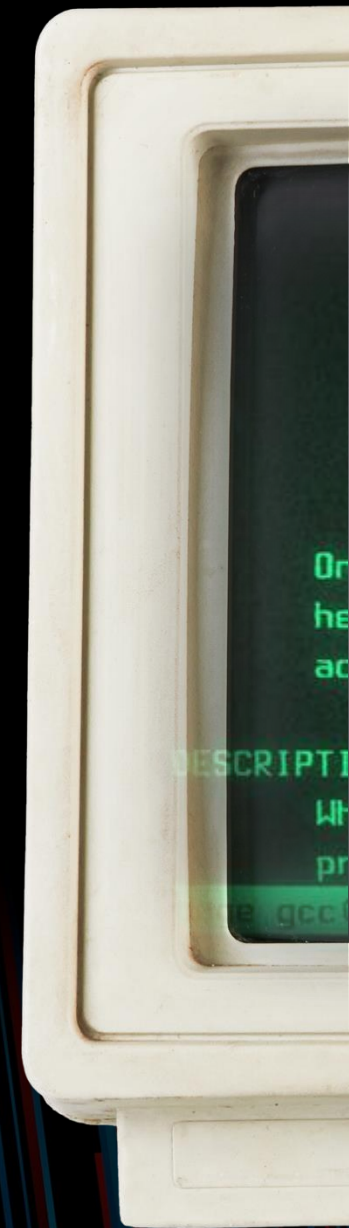
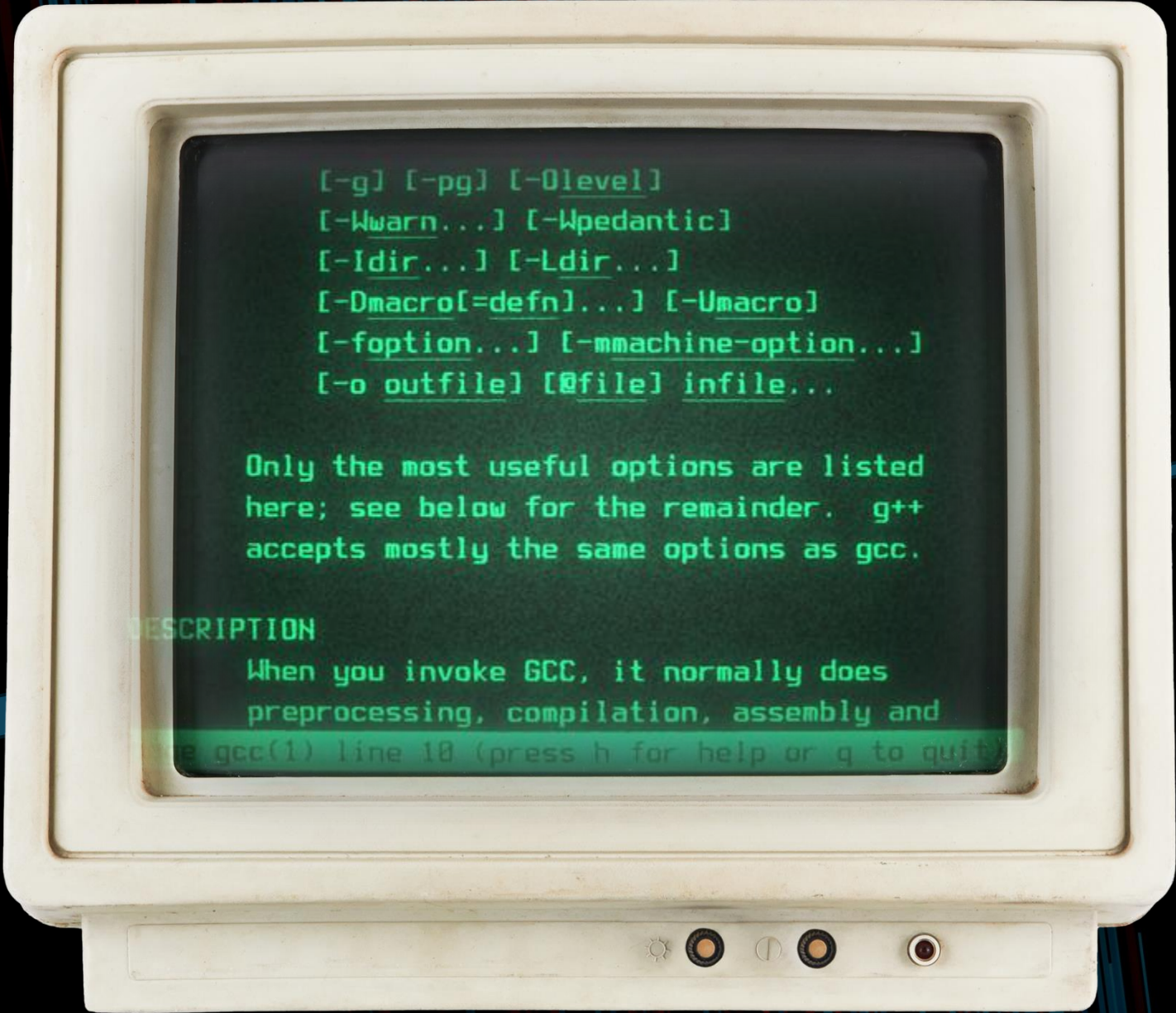




Natural User Interfaces

Vangos Pterneas





```
[-g] [-pg] [-Olevel]  
[-Wwarn...] [-Wpedantic]  
[-Idir...] [-Ldir...]  
[-Dmacro[=defn]...] [-Umacro]  
[-foption...] [-mmachine-option...]  
[-o outfile] [@file] infile...
```

Only the most useful options are listed here; see below for the remainder. g++ accepts mostly the same options as gcc.

DESCRIPTION

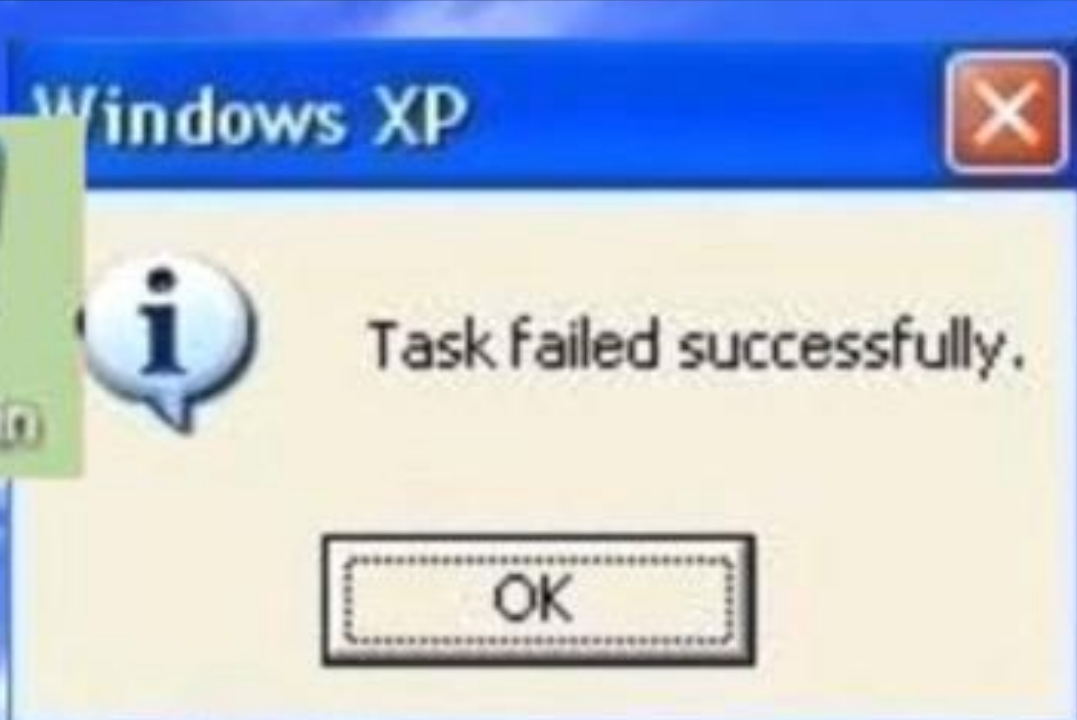
When you invoke GCC, it normally does preprocessing, compilation, assembly and linking. The gcc(1) line 10 (press h for help or q to quit)

Personal computers



Personal computers





en detected and Windows has been shut down to prevent damage

_VOLUME

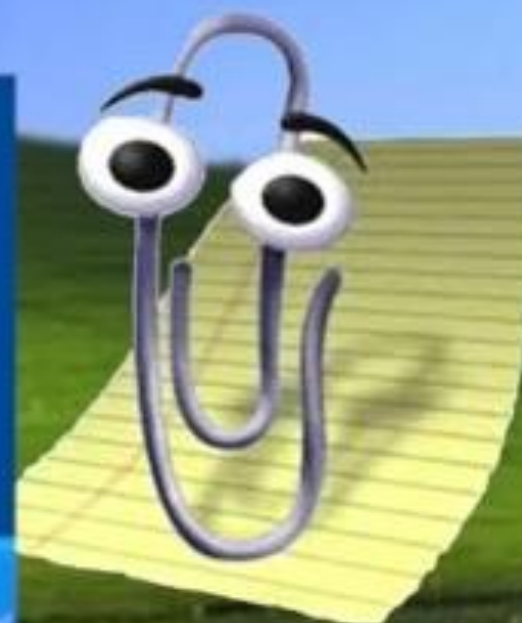
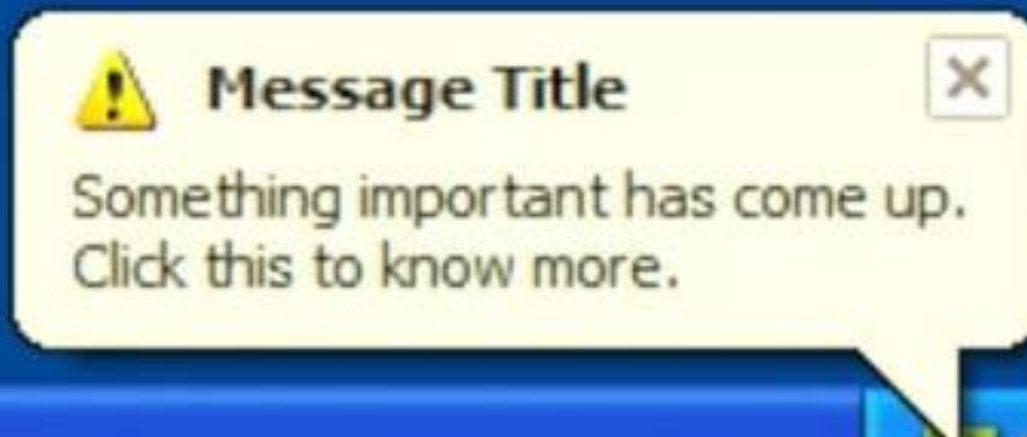
First time you've seen this error screen,
puter. If this screen appears again, follow

re any new hardware or software is properly installed.
Installation, ask your hardware or software manufacturer
updates you might need.

inue, disable or remove any newly installed hardware
able BIOS memory options such as caching or shadowing.
se Safe Mode to remove or disable components, restart
ress F8 to select Advanced Startup Options, and then

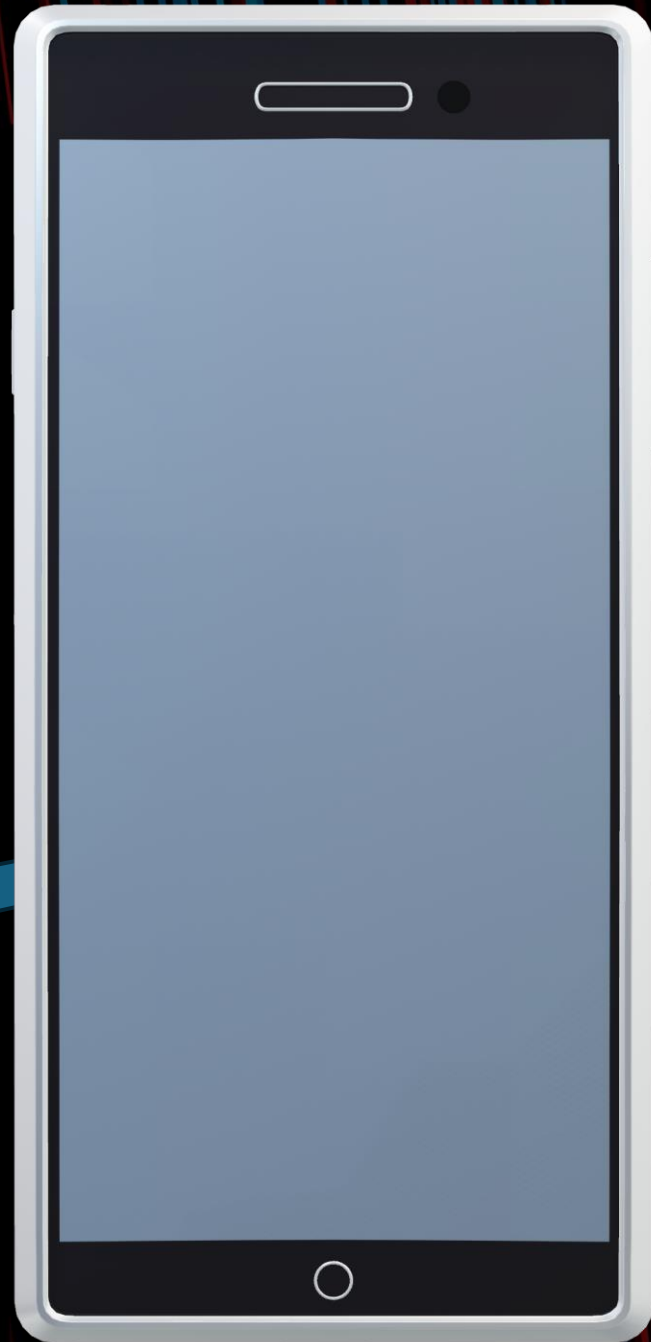
ation:

00ED (0x80F12808, 0xc000009c, 0x00000000, 0x00000000)





Mobile Devices



Mobile Devices



Mobile Hybrid Devices



Mixed Reality Headsets





MEANWHILE, YOU SAW THIS!

...AND THIS!

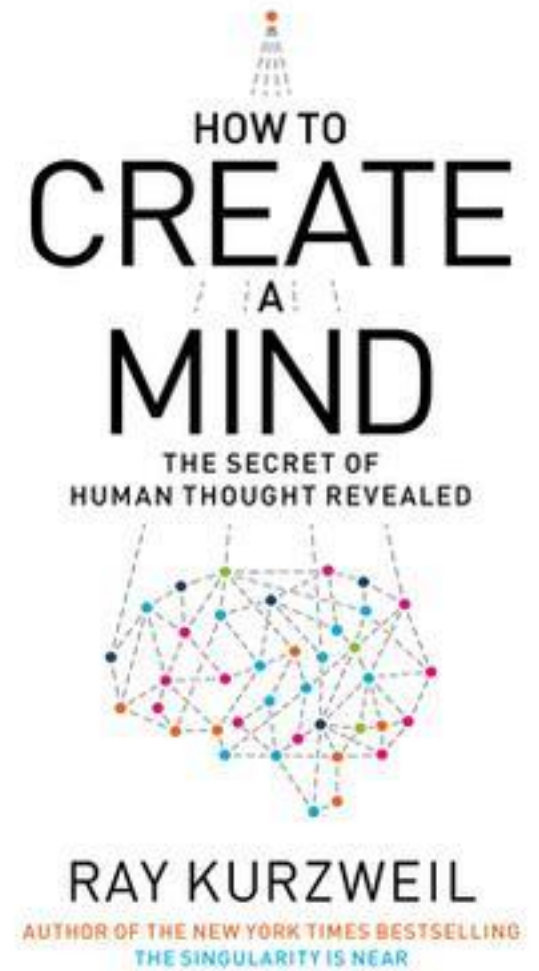


BUT IT WAS ONLY
fiction



SAY HELLO TO
NATURAL USER INTERFACES

OR...



SENSORS



SENSORS EVERYWHERE

0

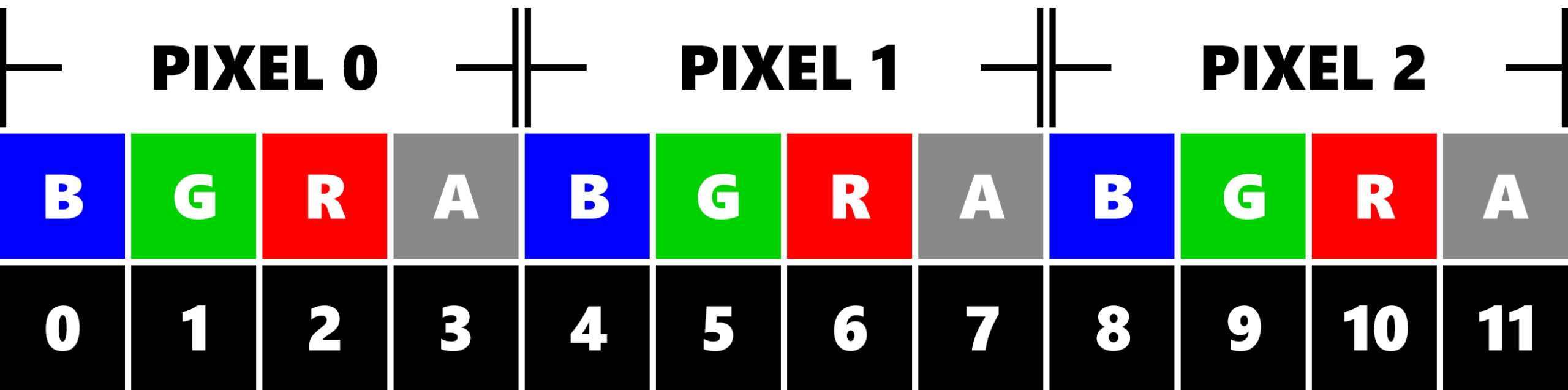
1920

1080

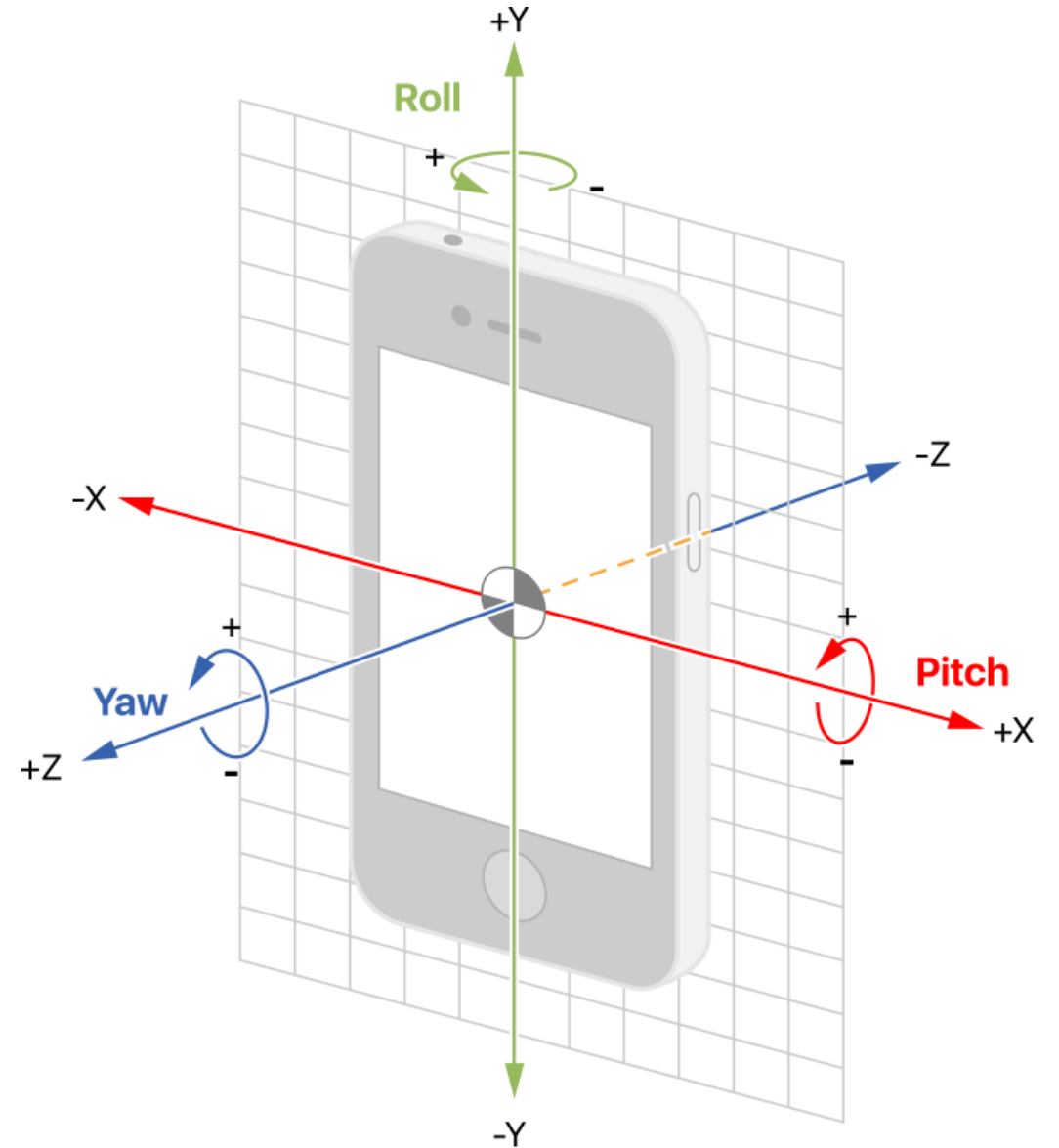




B: 85
G: 98
R: 168
A: 255



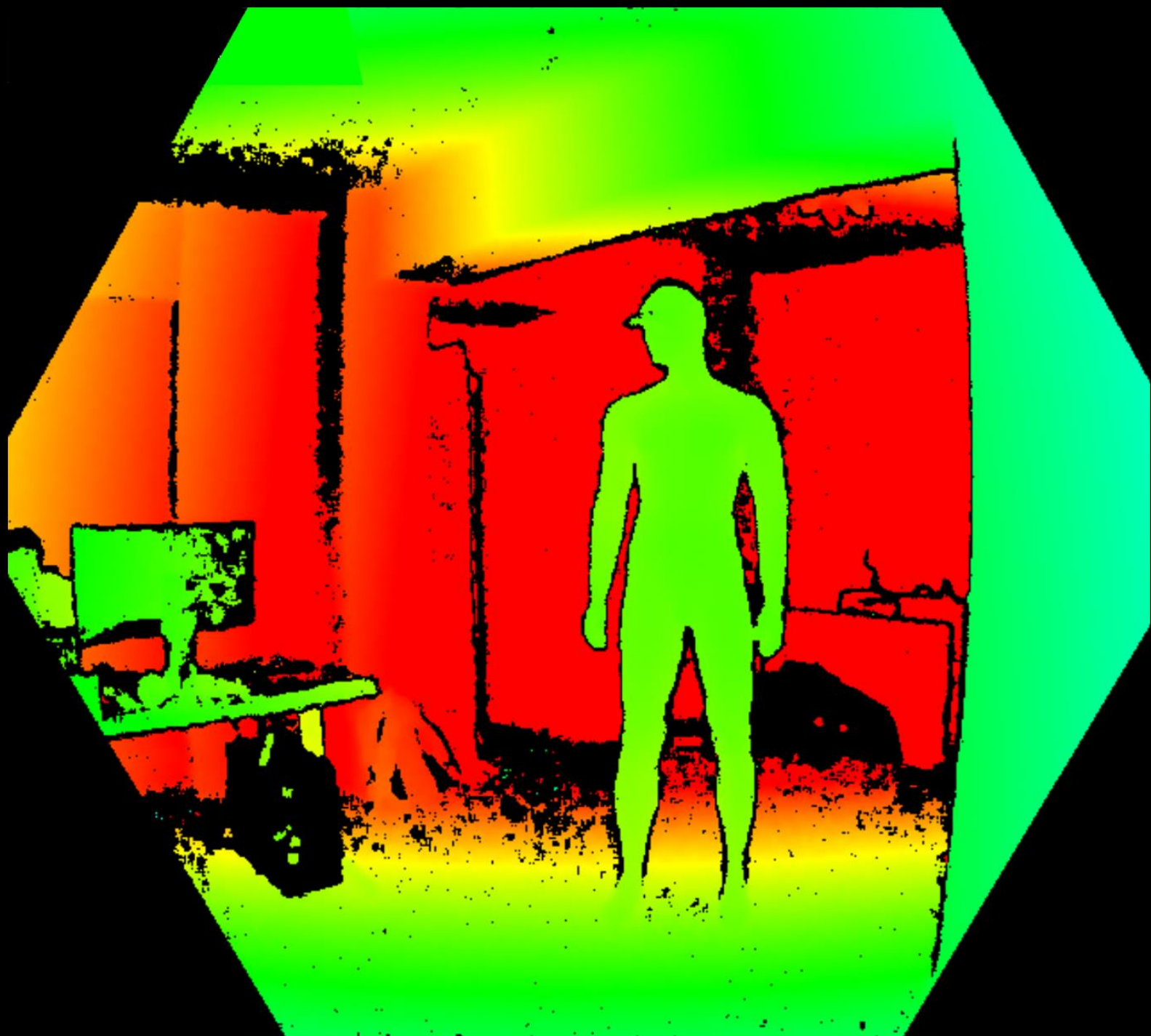
ACCELEROMETER
GYROSCOPE
MAGNETOMETER

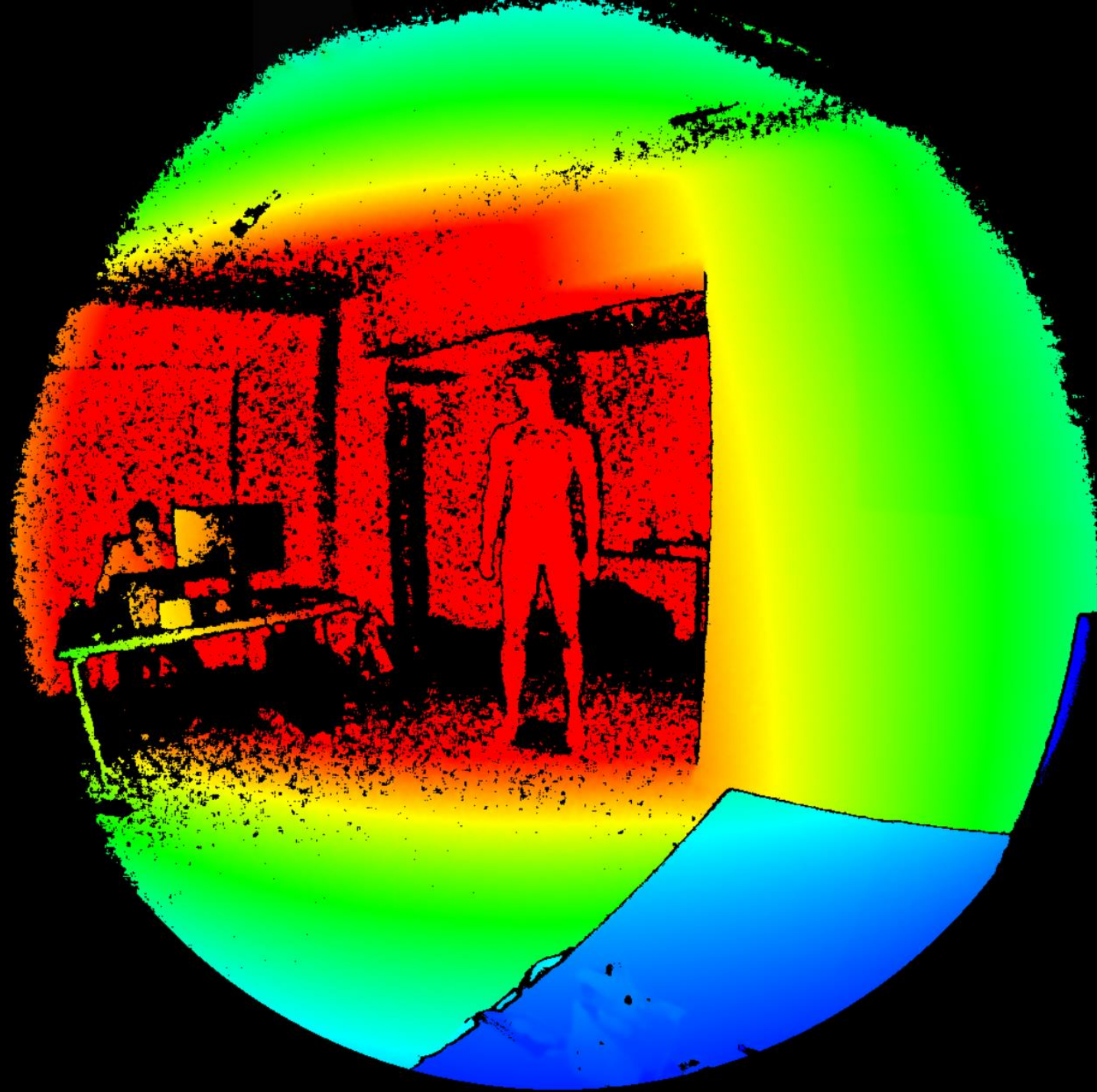


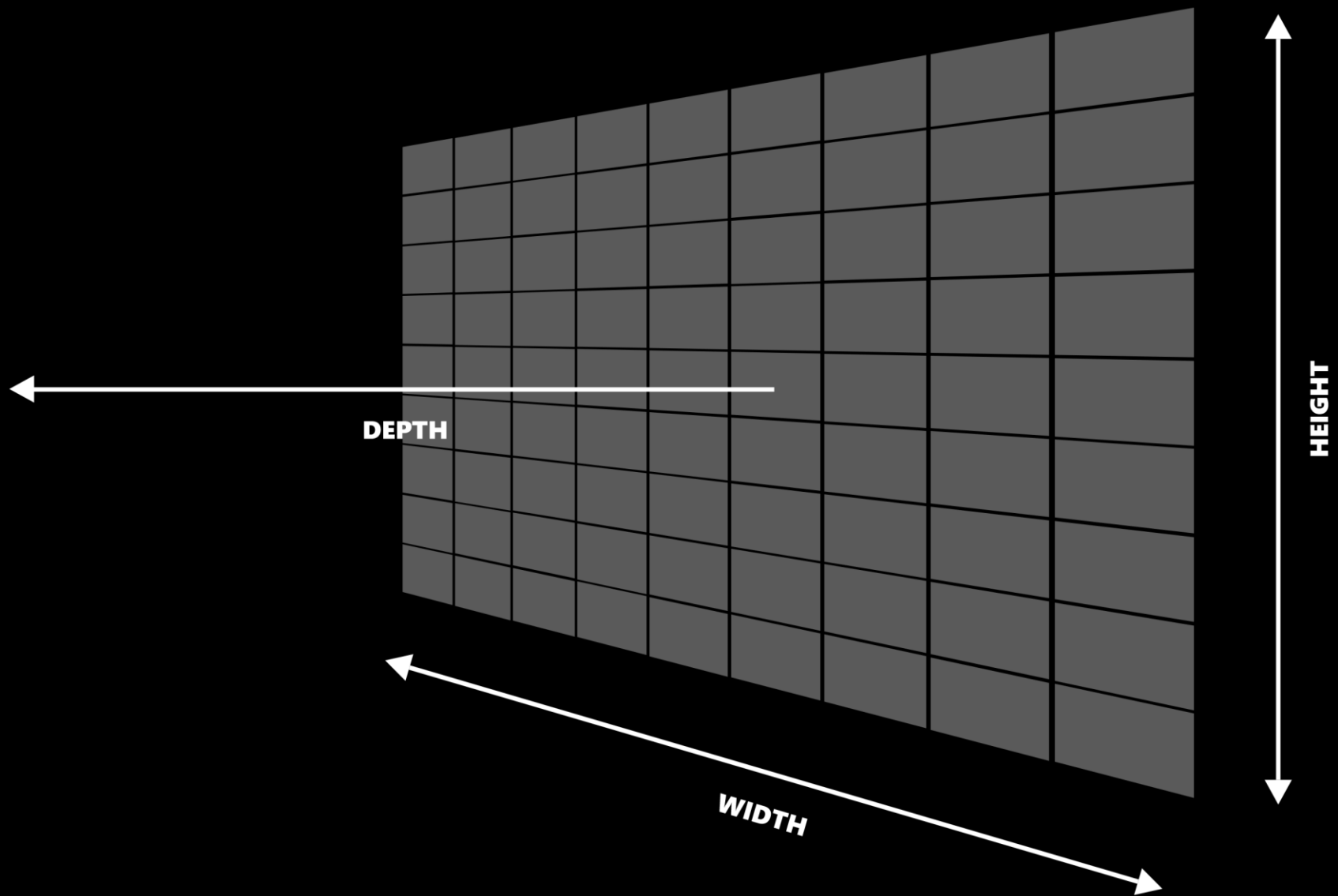
DEPTH
PERCEPTION

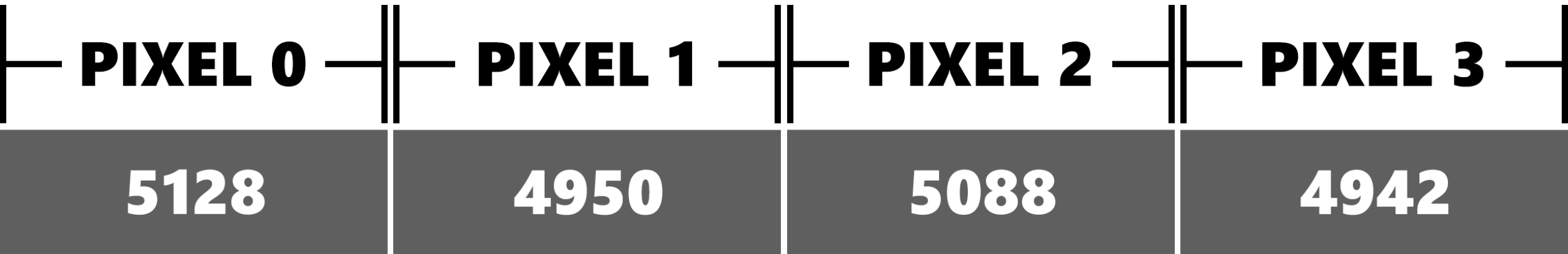
DEPTH

DEPTH

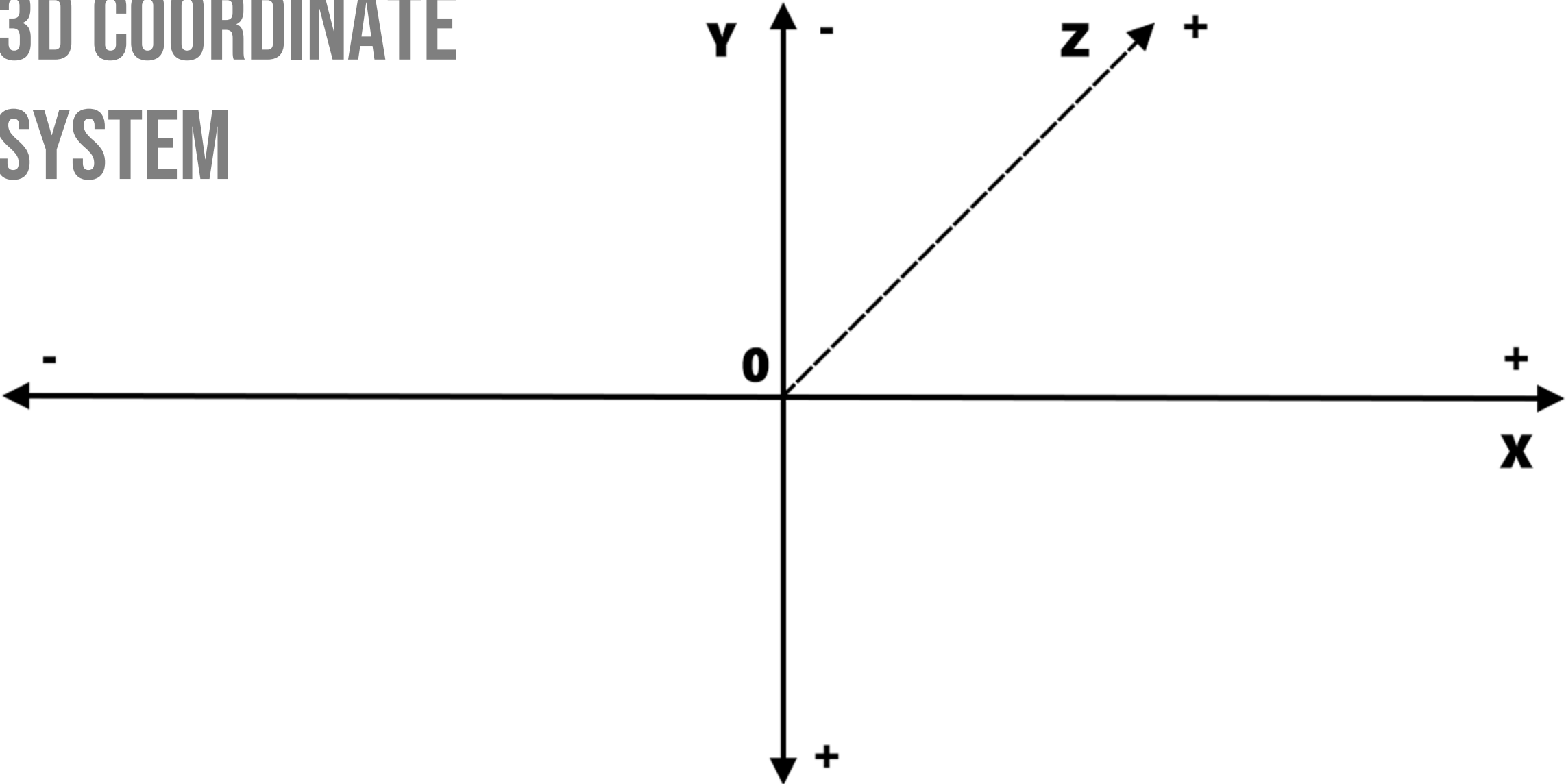








3D COORDINATE
SYSTEM



THE BRAIN





car

car

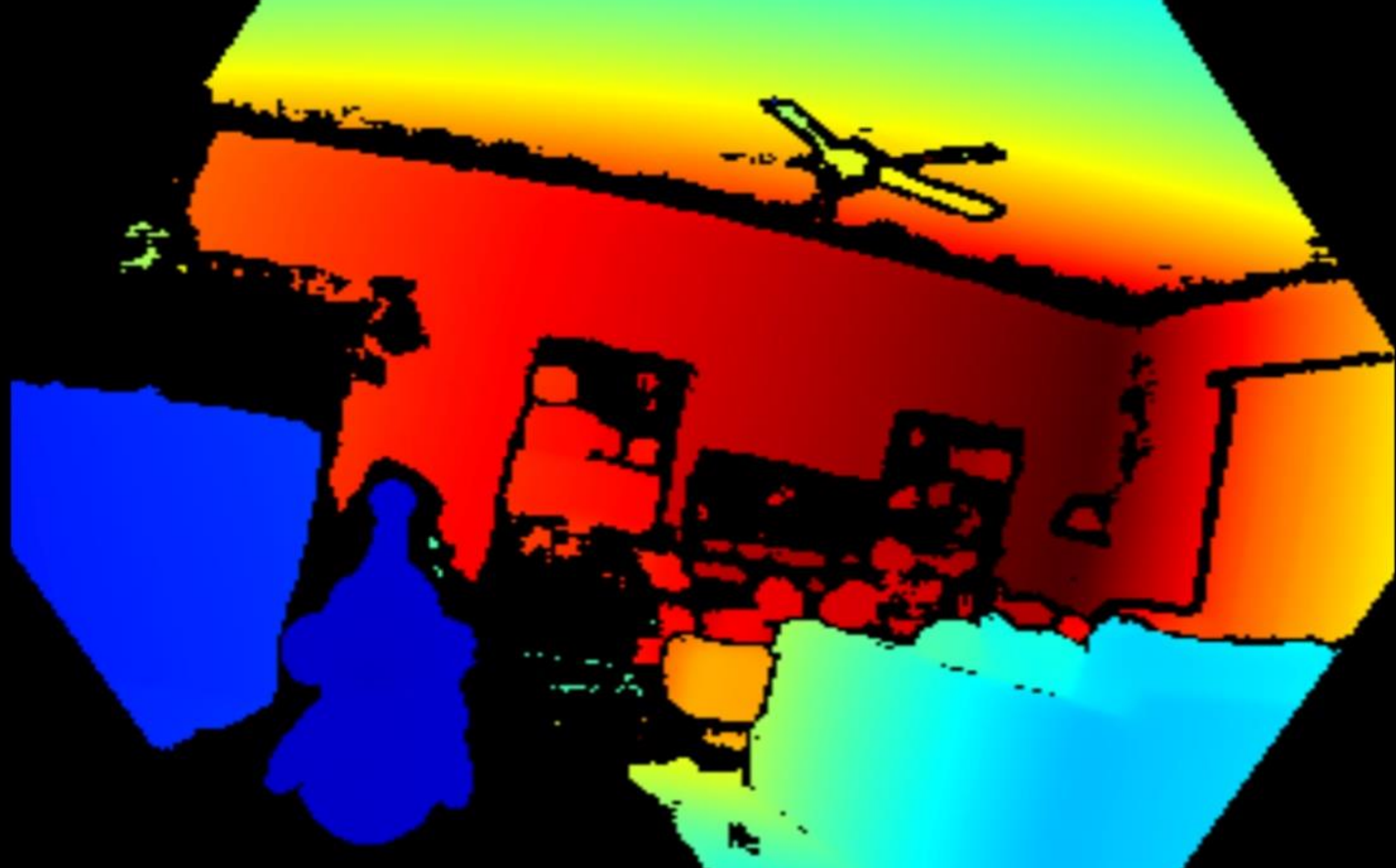
taxi

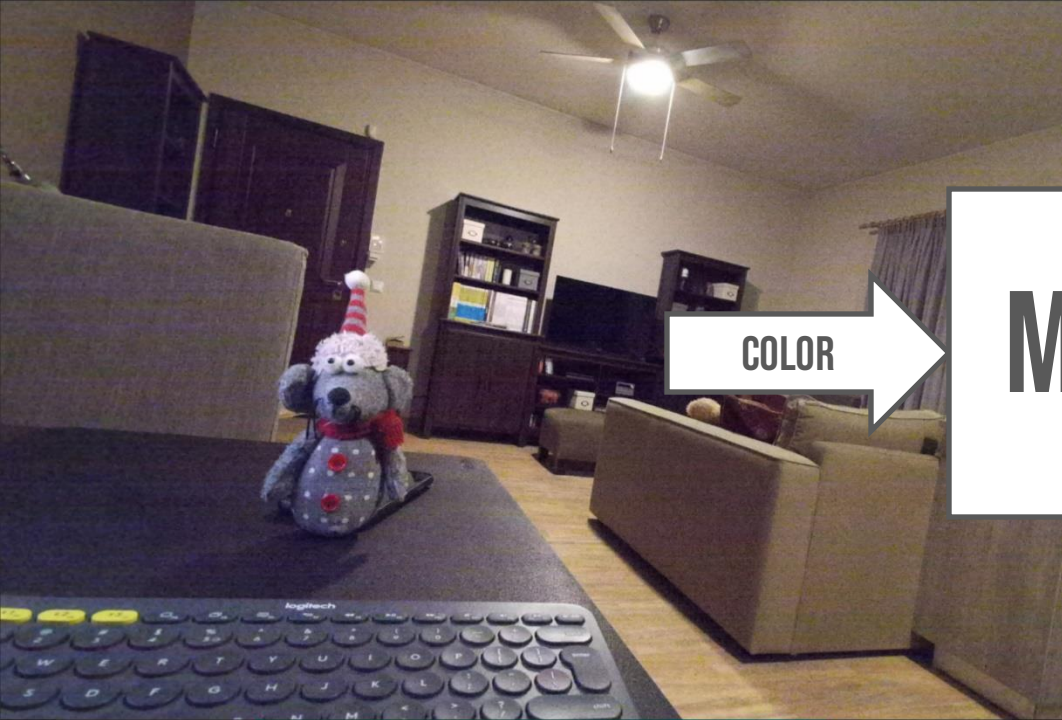
person

person

person



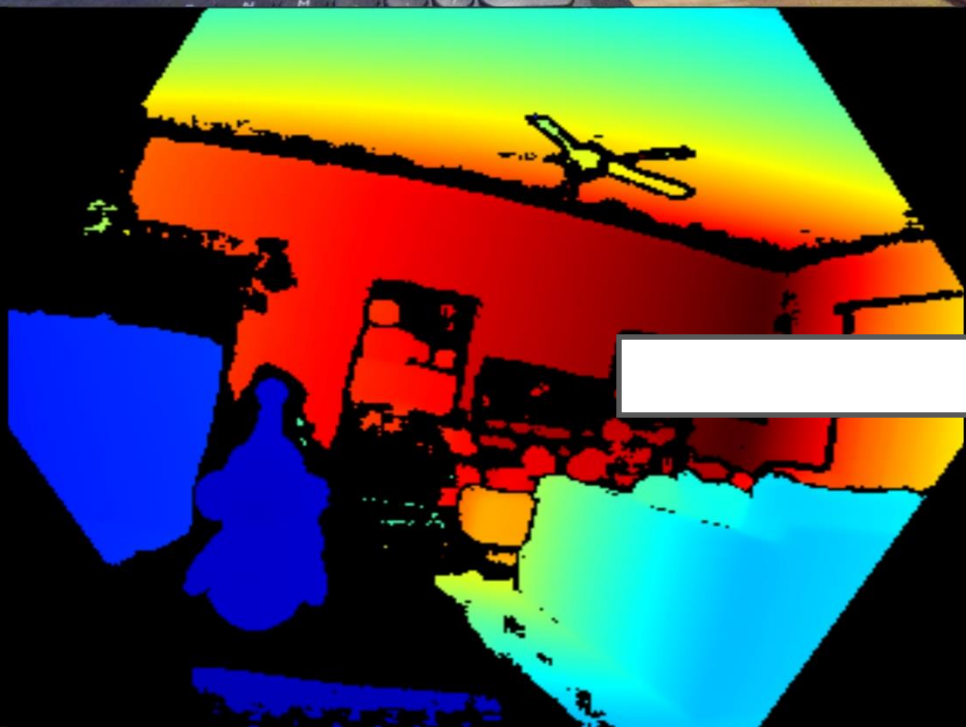




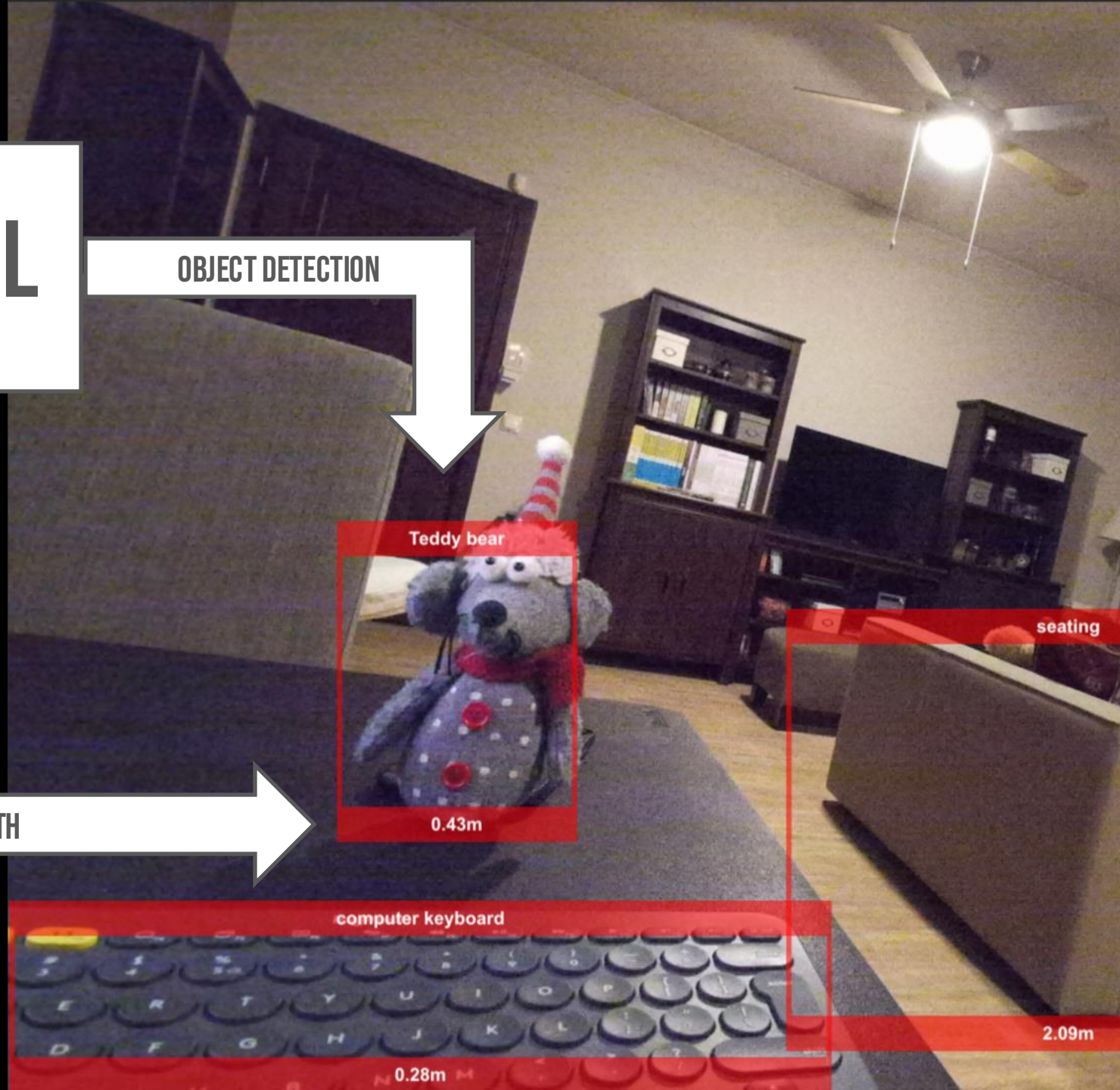
COLOR

ML

OBJECT DETECTION



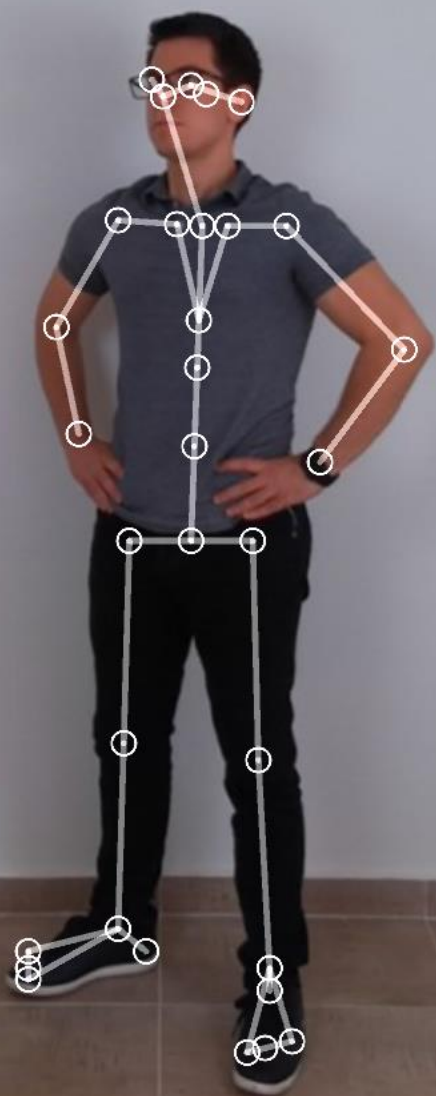
DEPTH

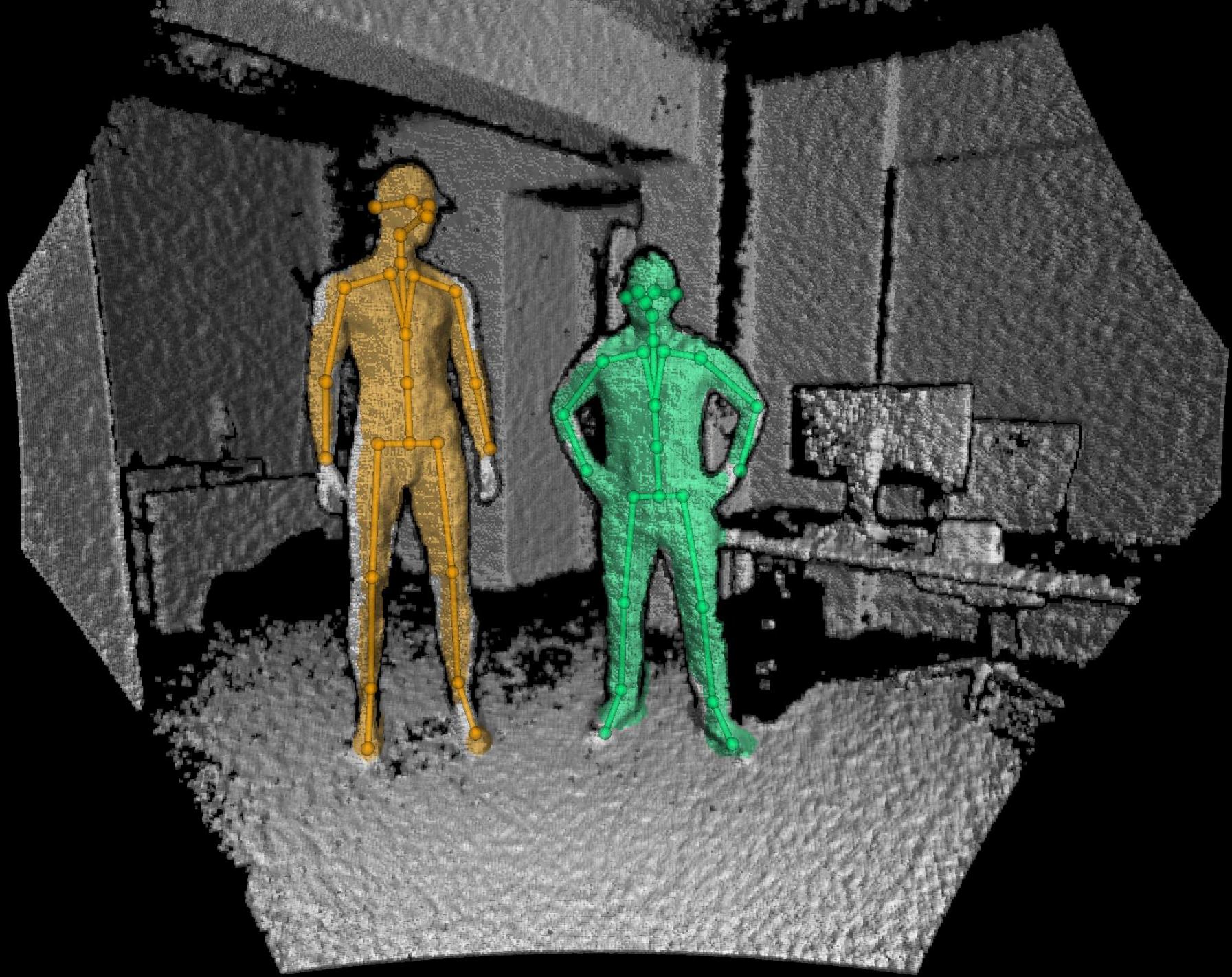


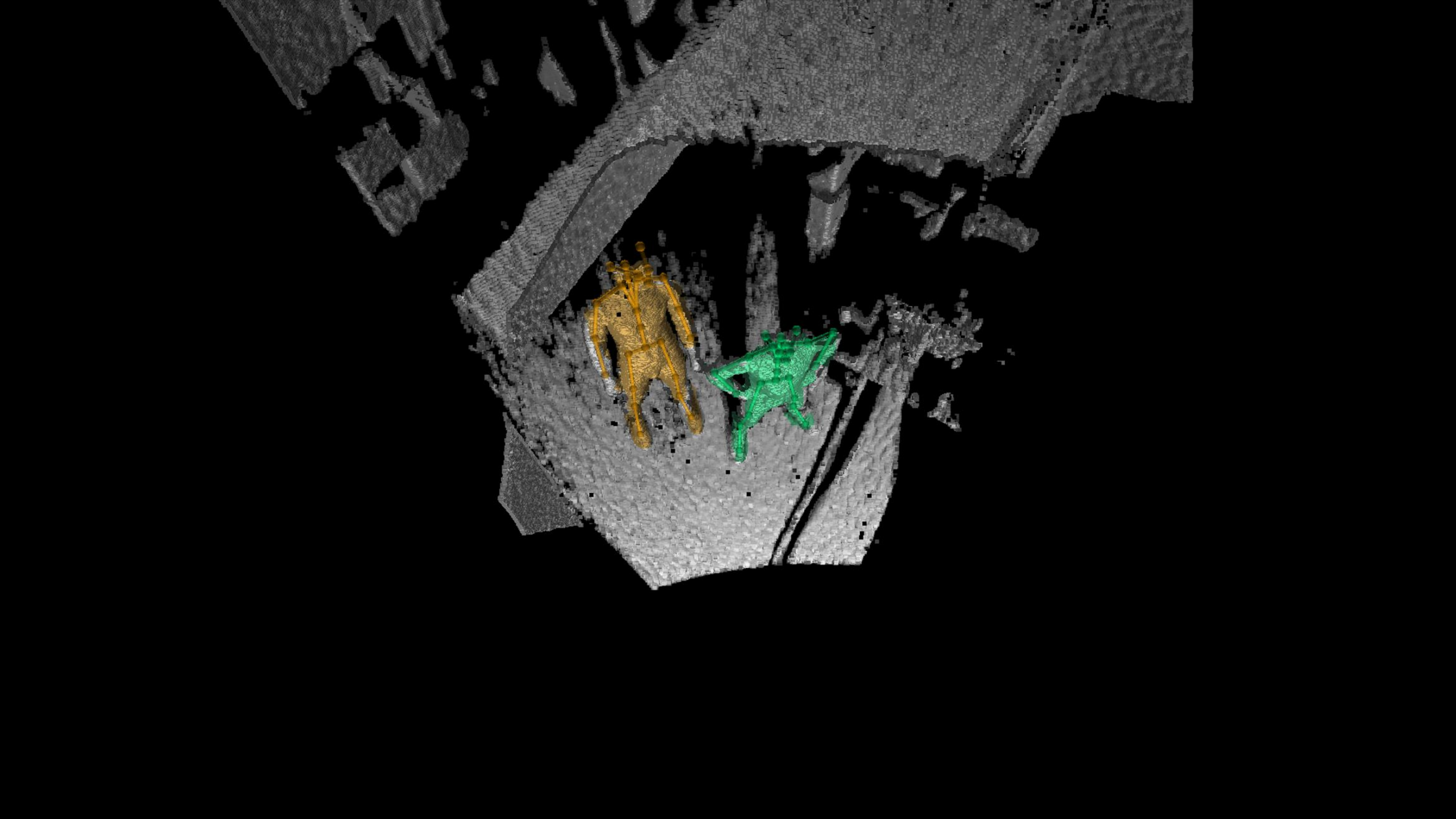
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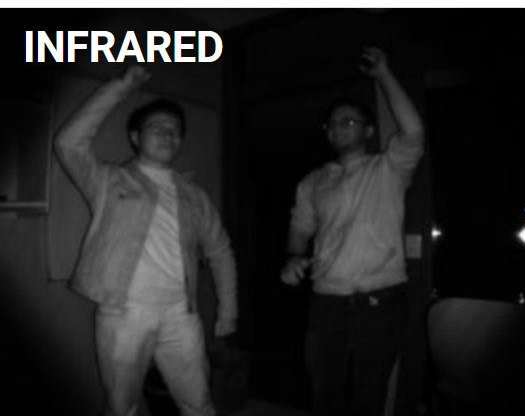
1920

1080

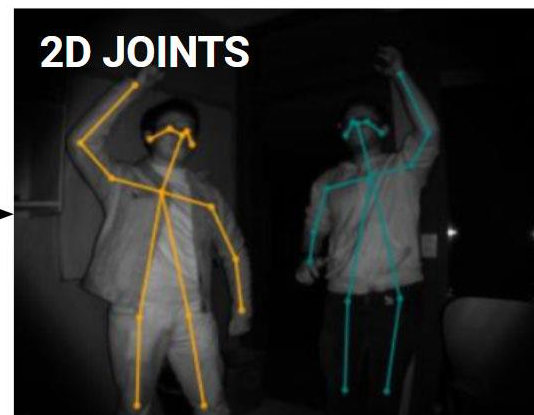








**NEURAL
NETWORK**



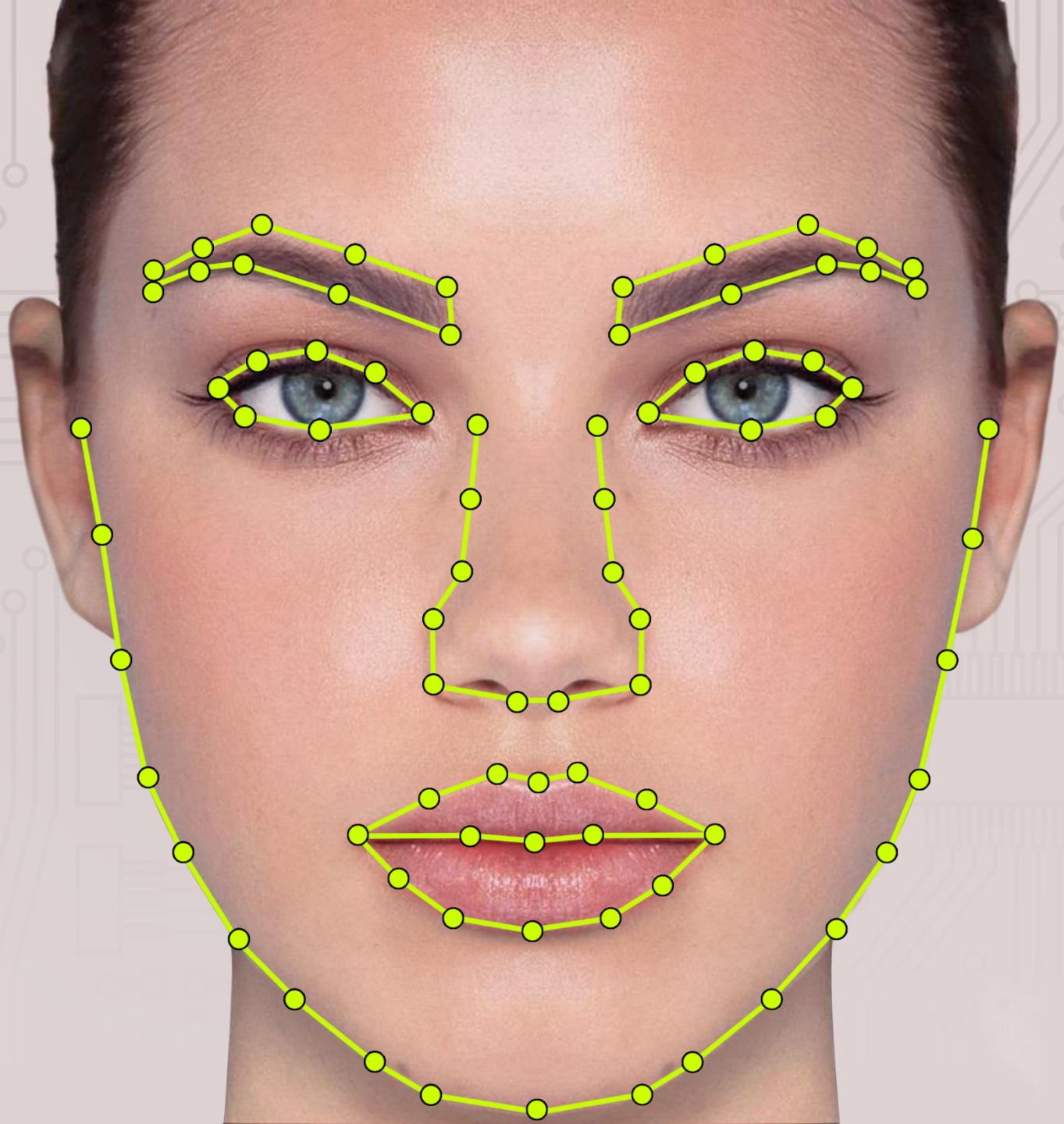
**MODEL
FITTING**



BODY TRACKING



FACE + IRIS TRACKING





**FINGER
TRACKING**



110101
101010101000111
voice recognition
011011



MIXED
REALITY

EDITORS' CHOICE

Explore the Cosmos

Immerse yourself in a stargazing experience that's out of this world.



Sky Guide

Star gaze constellation finder

GET

In App Purchases

Get Started >



New Post



Hotel Beach

Date Posted 10/24/2014



Life on the Island

Date Posted 10/18/2014



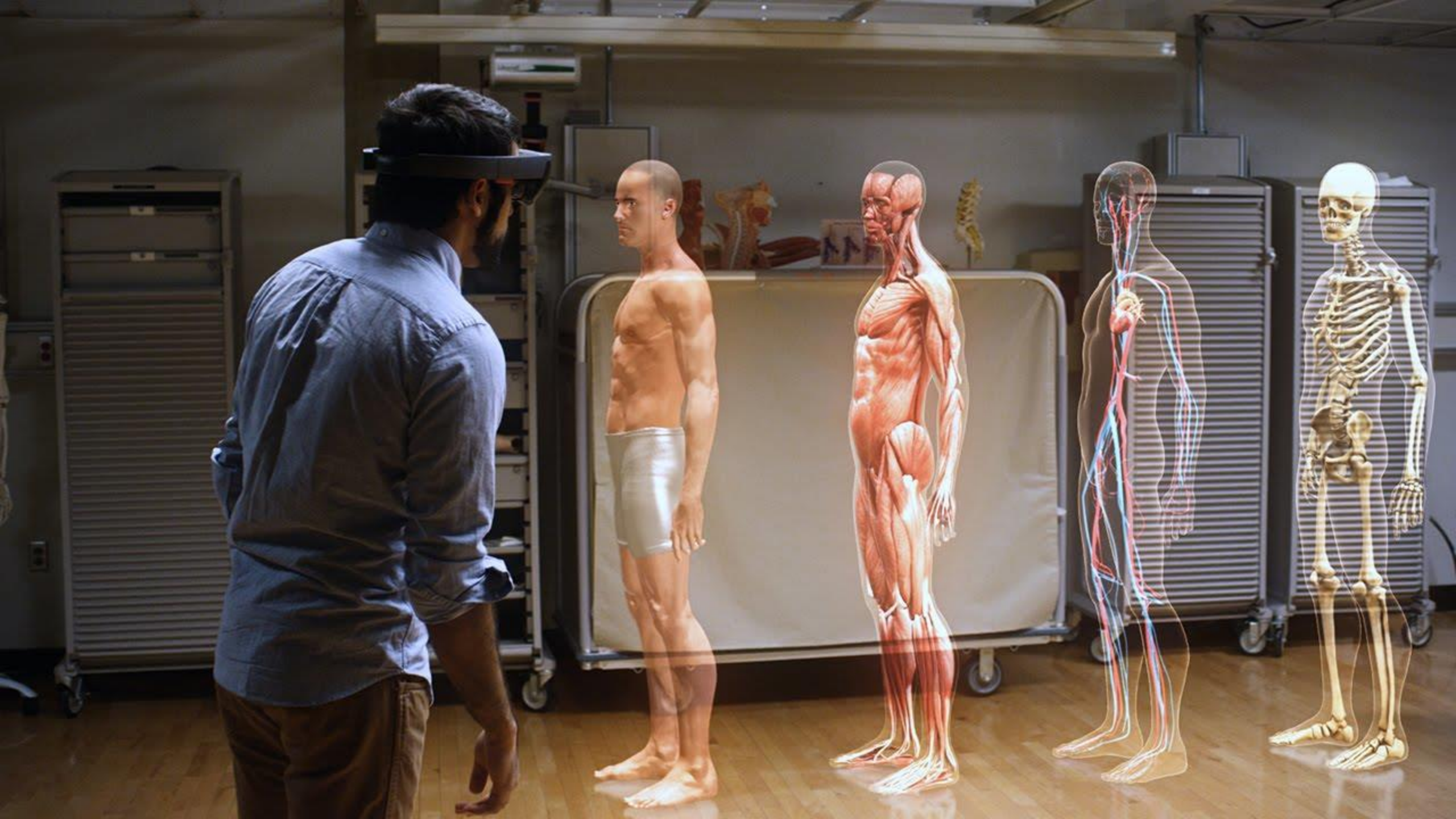
Hawaiian Flowers

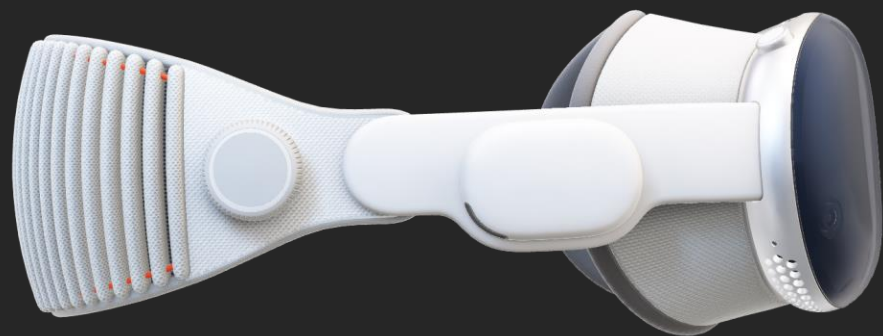


Over

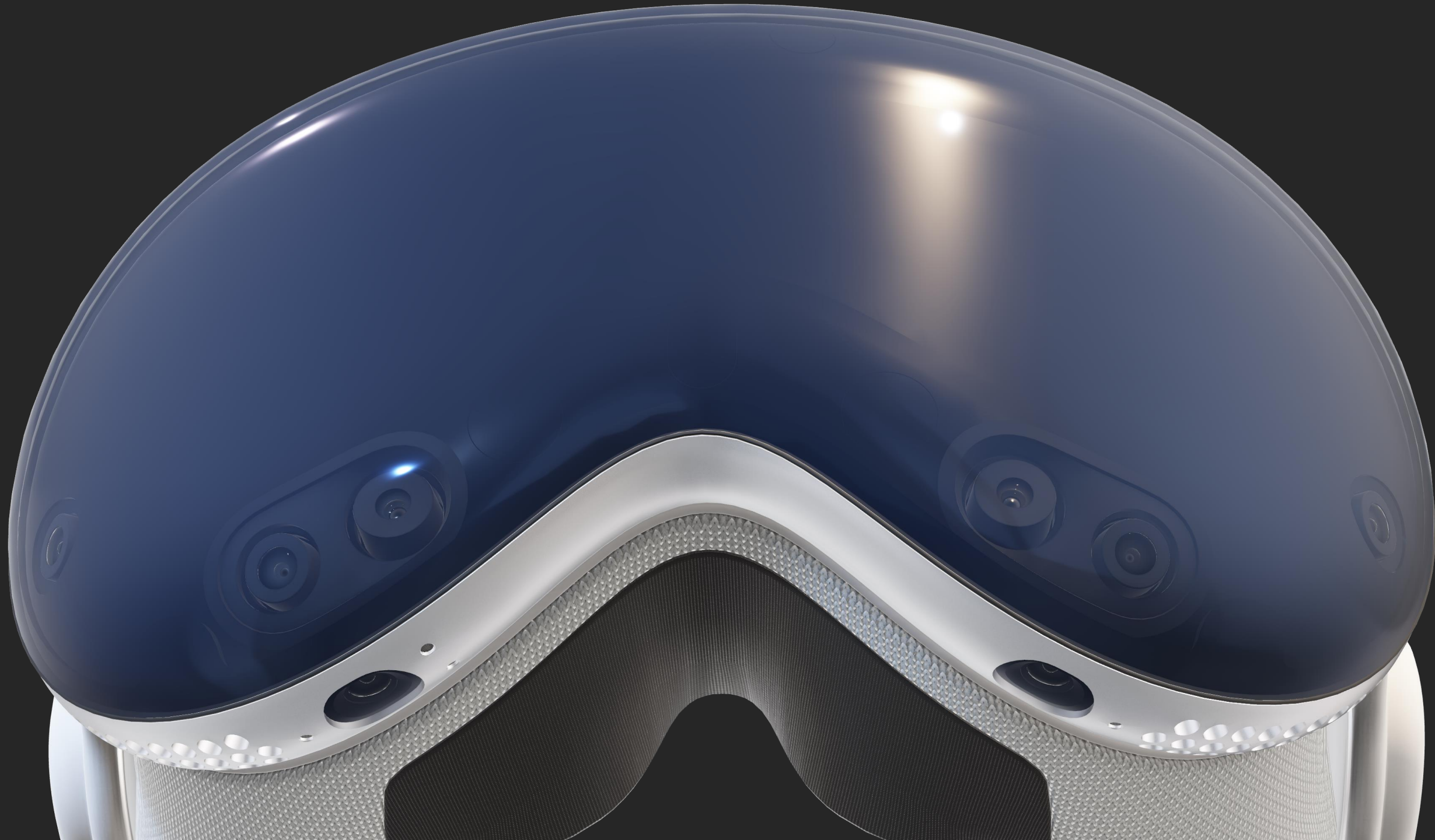
De

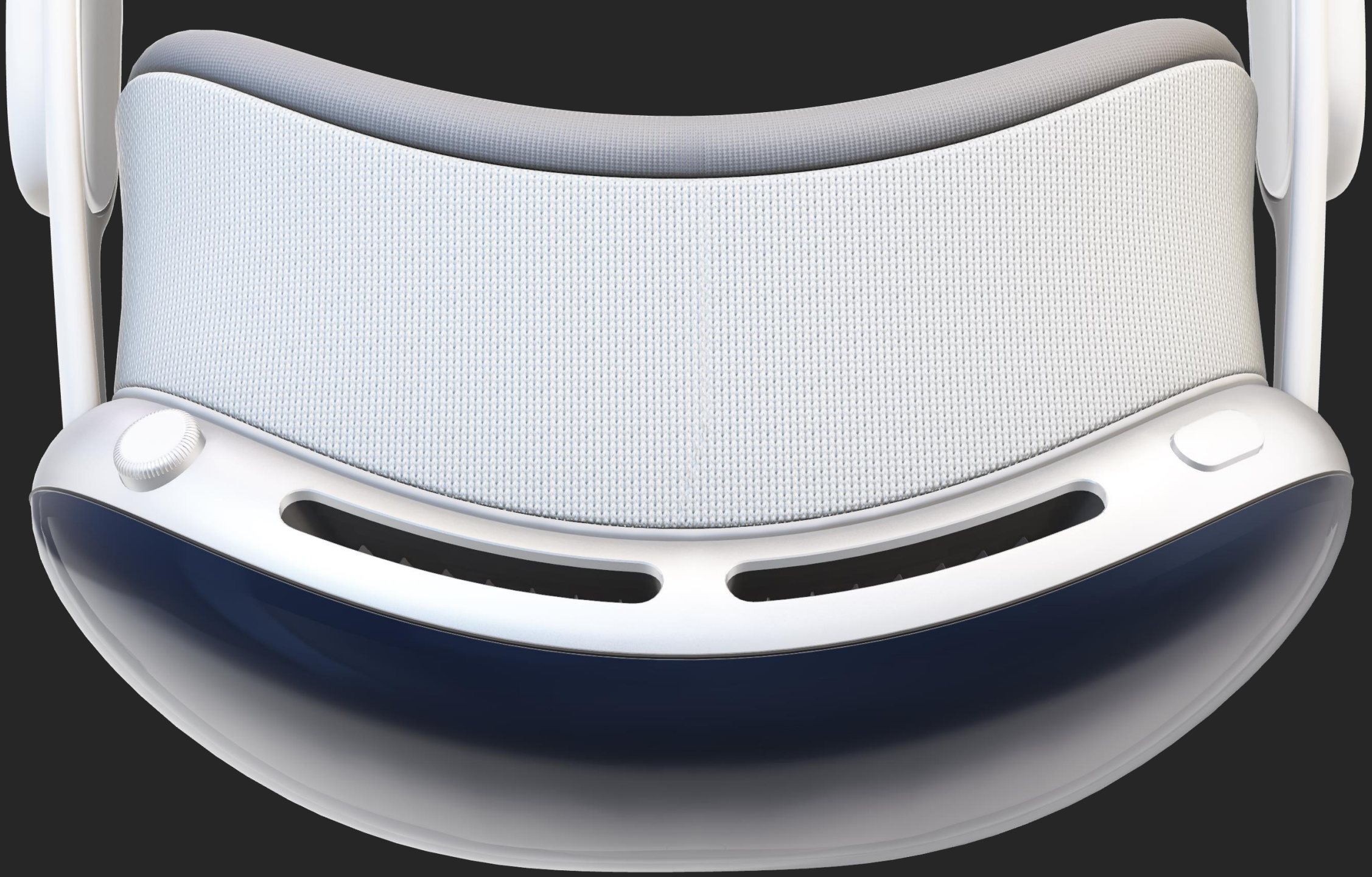




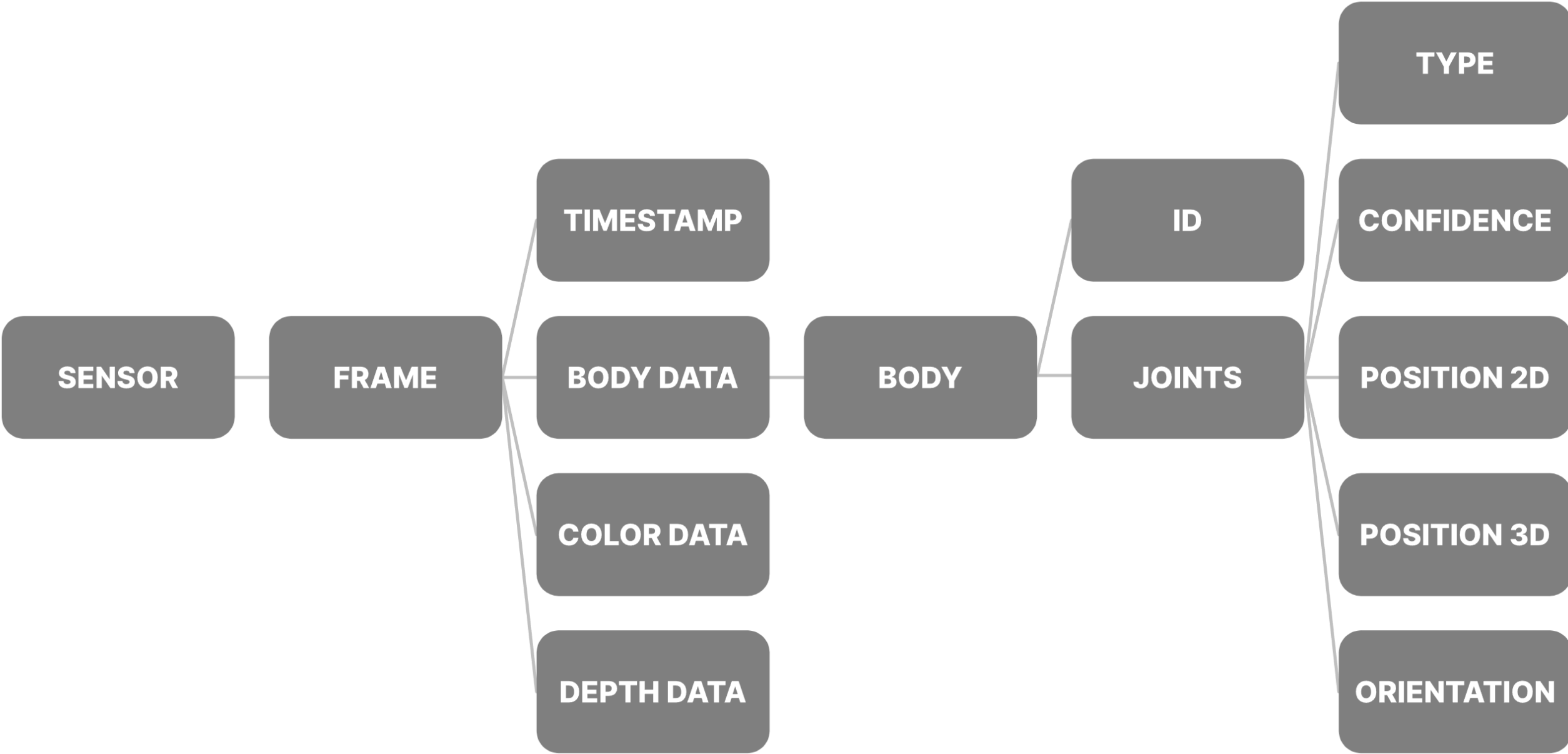








DEMOS



ΒΑΓΓΕΛΗΣ ΠΤΕΡΝΕΑΣ



vangos@pterneas.com

Mastering the Microsoft Kinect

Body Tracking, Object Detection,
and the Azure Cloud Services

—
Vangos Pterneas

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Thank
you