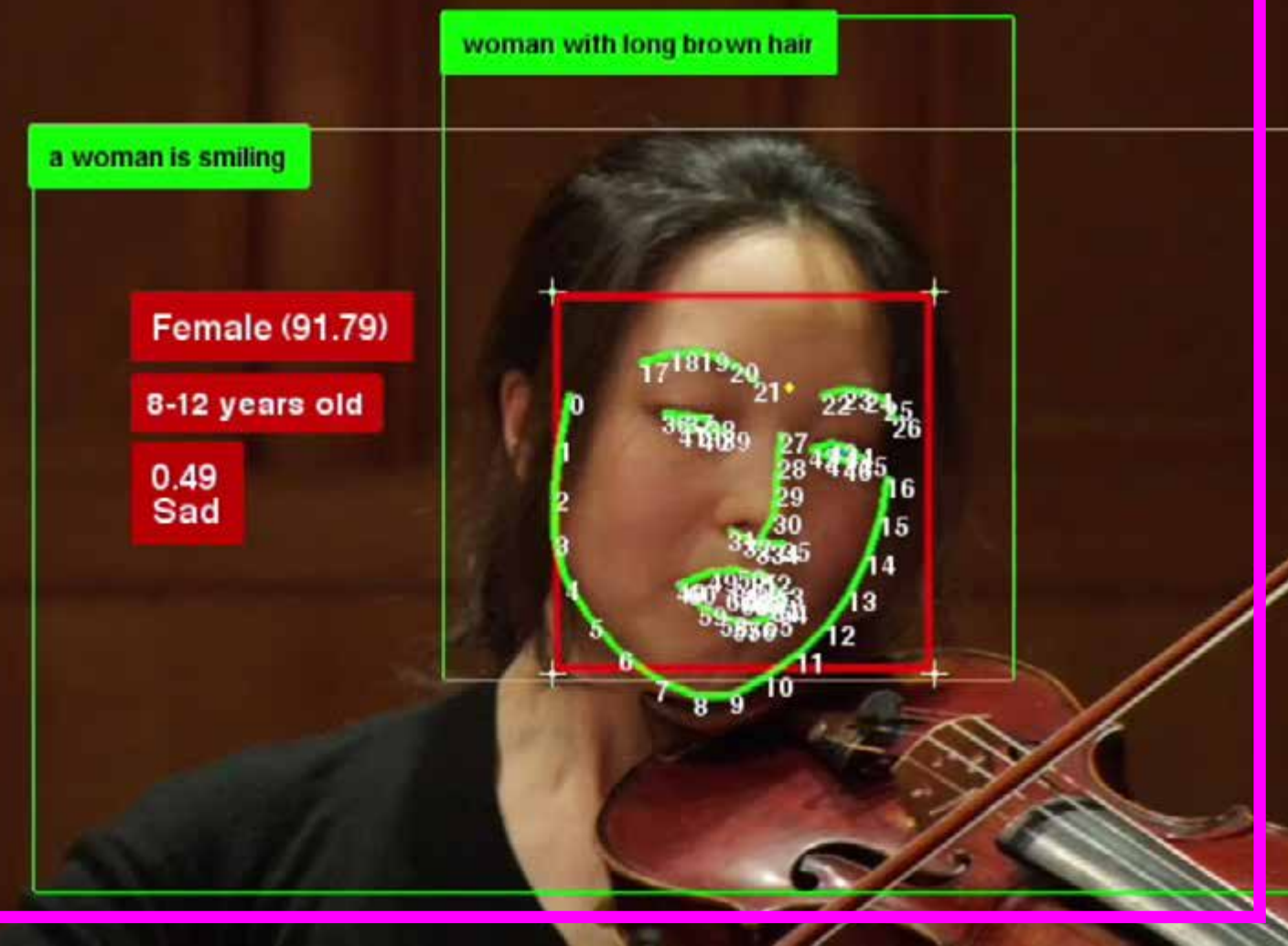
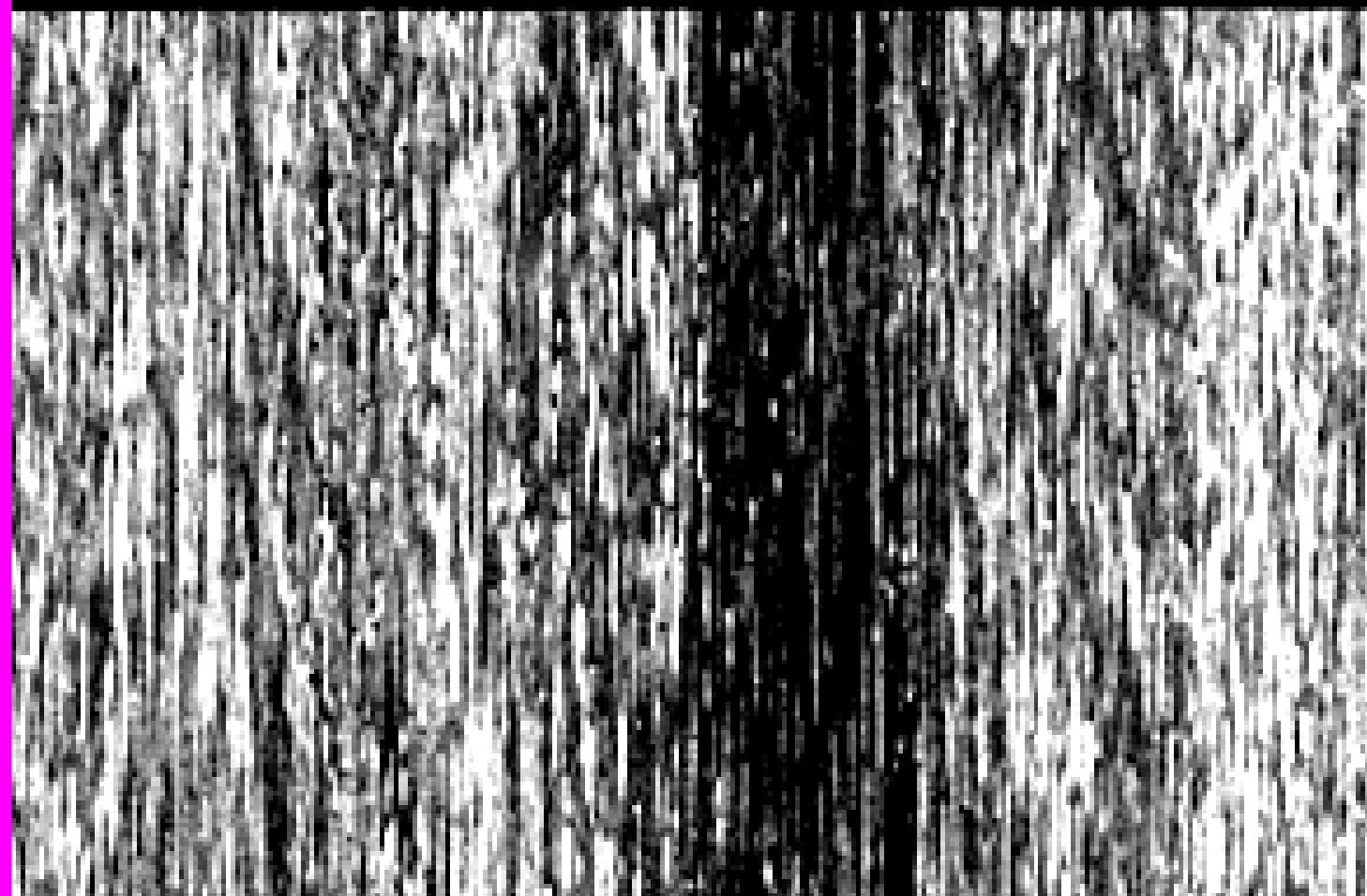
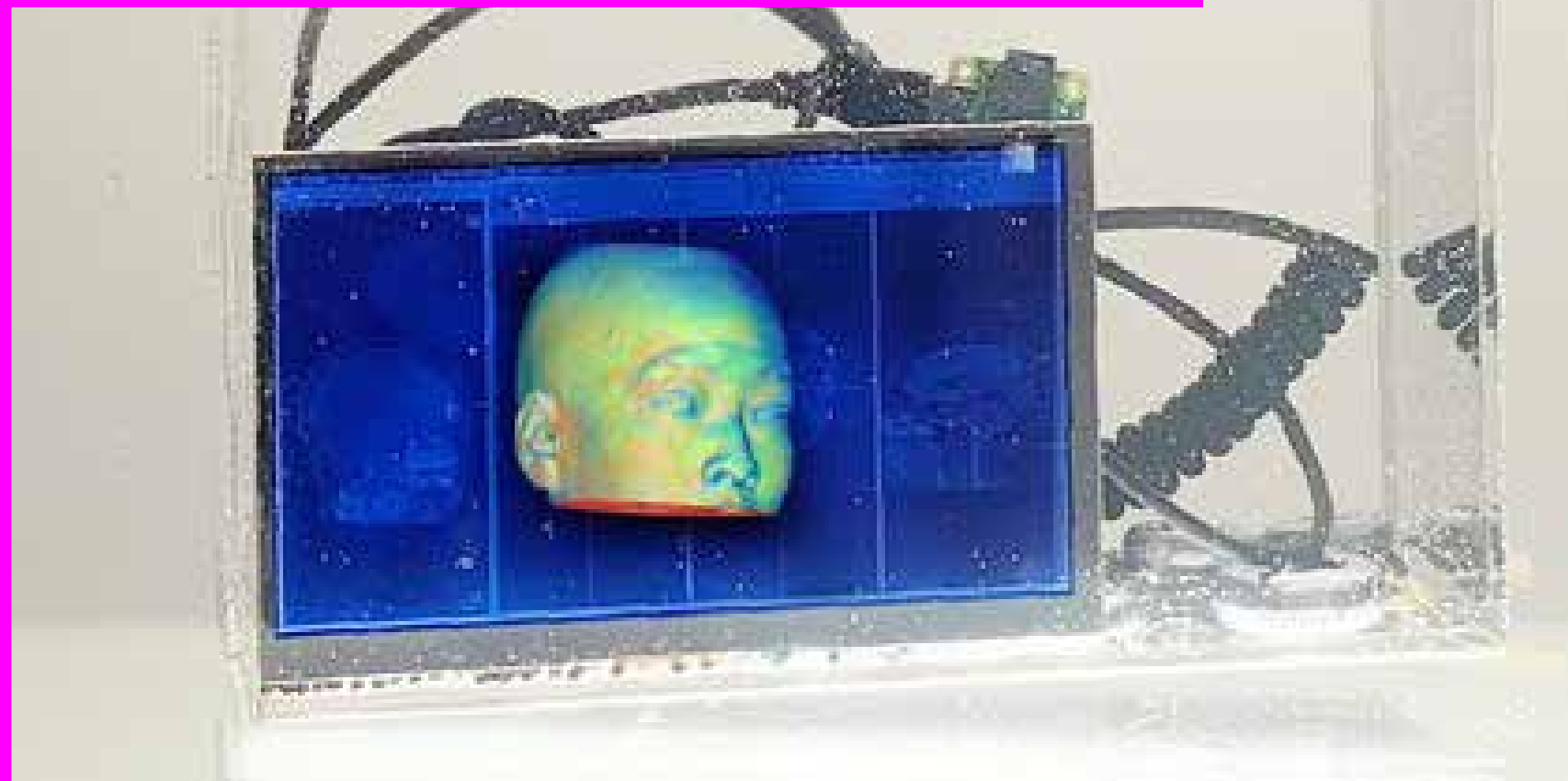
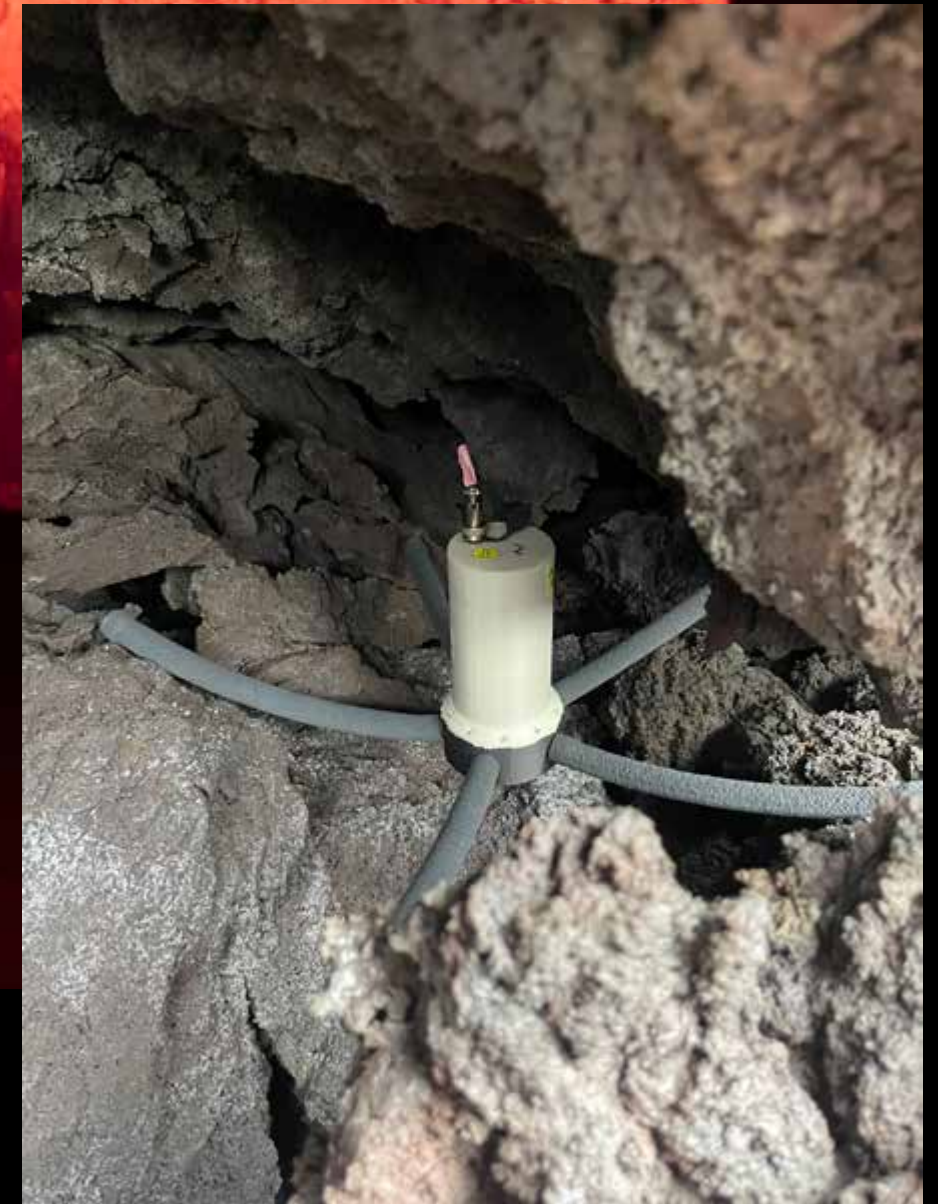
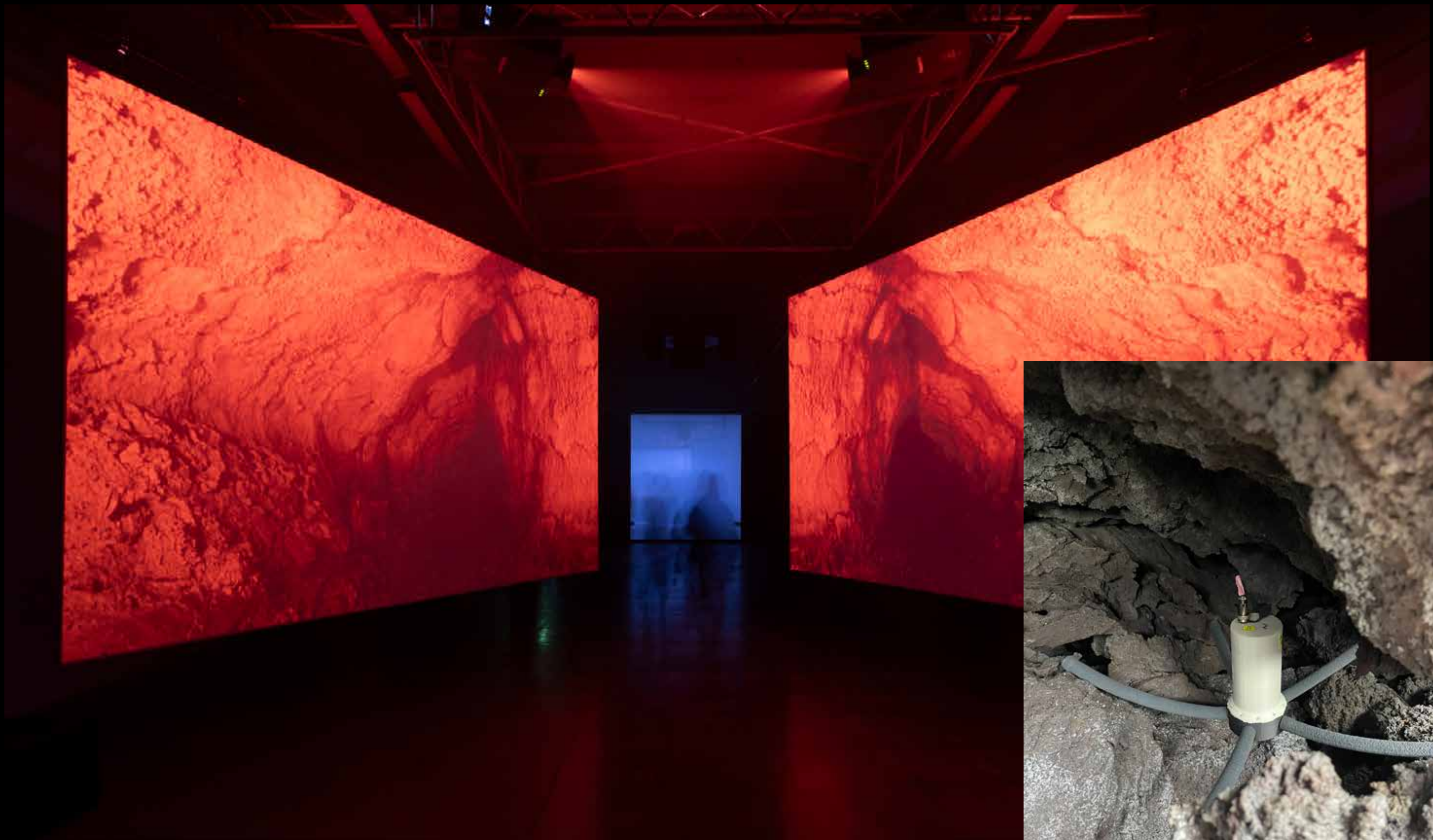


HackLab IST 2026







▼ Draw Settings

Clear color: 183 183 183
Draw color temp: 0 0 0
Draw color 1: 17 17 17
Draw color 2: 0 0 0
Draw color 3: 0 0 0
Draw color 4: 102 153 77
Base width (mm): 1.400
Grid color: 0 0 0
Size (mm): 420 594
Grid: 15 21
Border color: 194 194 194
Border width (mm): 57.000
Depth color: 0 0 0
Shadow color: 0 0 0

▼ Viewport

Position (px) center
450486.062 128218.383
Rotation Zoom
0.000 25%

▼ Generator

Script refresh
July-25
landscape8a.cs
348220210 ☒ Use Seed
compile and generate

File export

/home/robber/dev/drawing_exports/
textproof5.dri
choose file
export layer 1 to file
export layer 2 to file
export layer 3 to file
export layer 4 to file

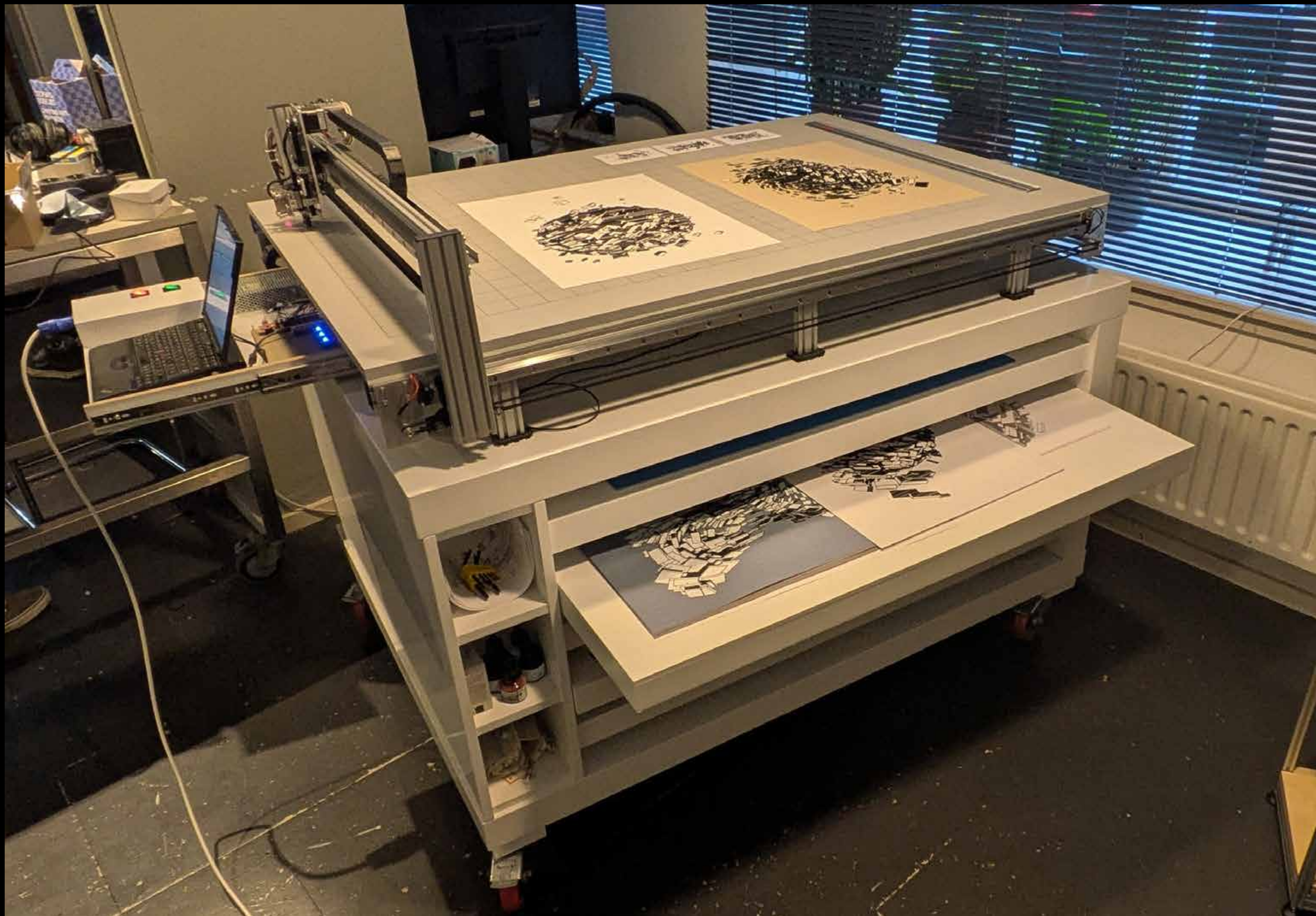
▼ Stats

Mouse position: +492, 2109+
Window width: 2560 px
Window height: 2787 px
Application ms/frame: 15.11
Application FPS: 66.2
Application delta: 0.02 ms
Memory: 461 mb
CPU Cores: 6 9%

▼ Debug Console

Total time: 0h 4m 19s 188ms
Compiling script.
Executing script.
Generating with seed 543455399.
Script execution canceled.
Total time: 0h 0m 13s 73ms
Compiling script.
Executing script.
Script execution canceled.
Total time: 0h 0m 7s 250ms
Compiling script.
Executing script.
Script execution canceled.
Total time: 0h 0m 0s 765ms
Compiling script.
Executing script.
Generating with seed 348220210.
Script execution canceled.
Total time: 0h 0m 2s 42ms







The HackLab IST is about exploring, experimenting, and re-materialising technology for artistic practices. Hacking is about crossing borders, transcending pre-defined fields and areas.



Open-ended structure:

Work on a new project,
Work on an existing project,
Collaborate on a new project,
Experiment as a series,
Learn new software/hardware,
Zero definitions & infinite ways.

Course Structure

SIGN-UPS

Weekly sign-ups via
googlesheets [weekly release]

Open-door hackerspace

Workshop access

11 WEEK LAB

Wednesday
10:00h – 16:00hr

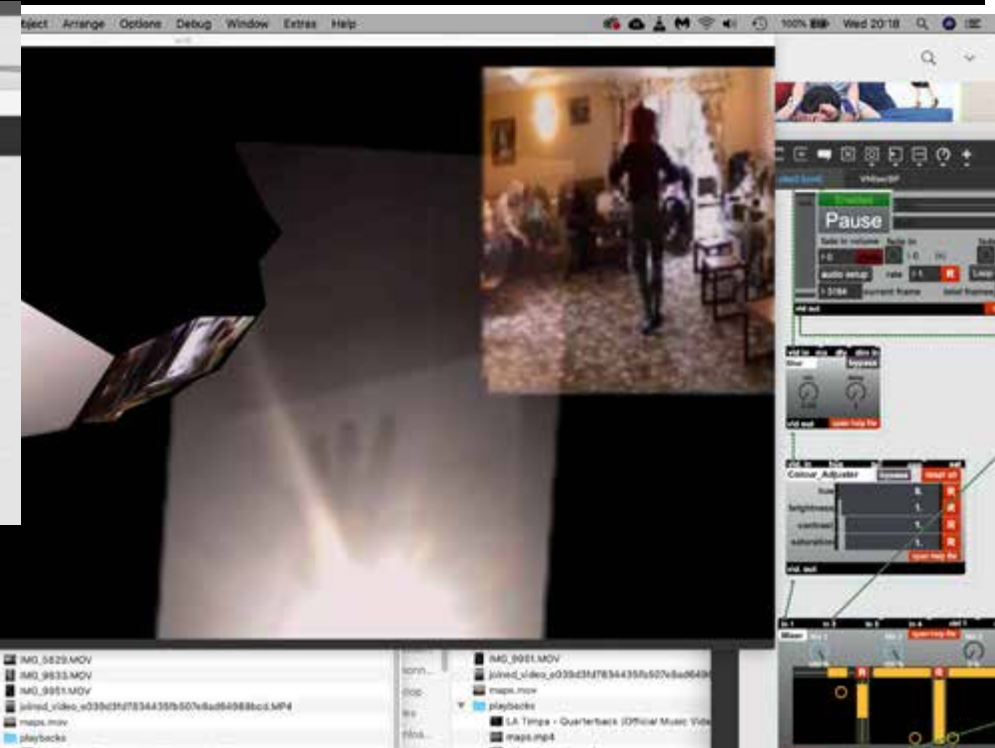
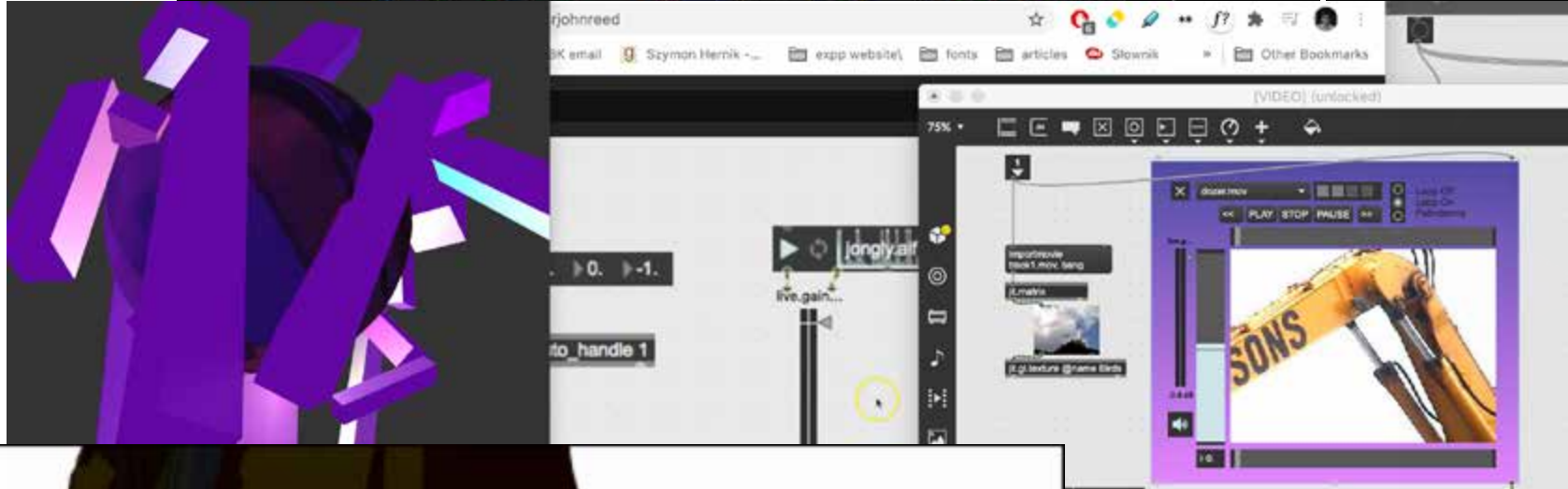
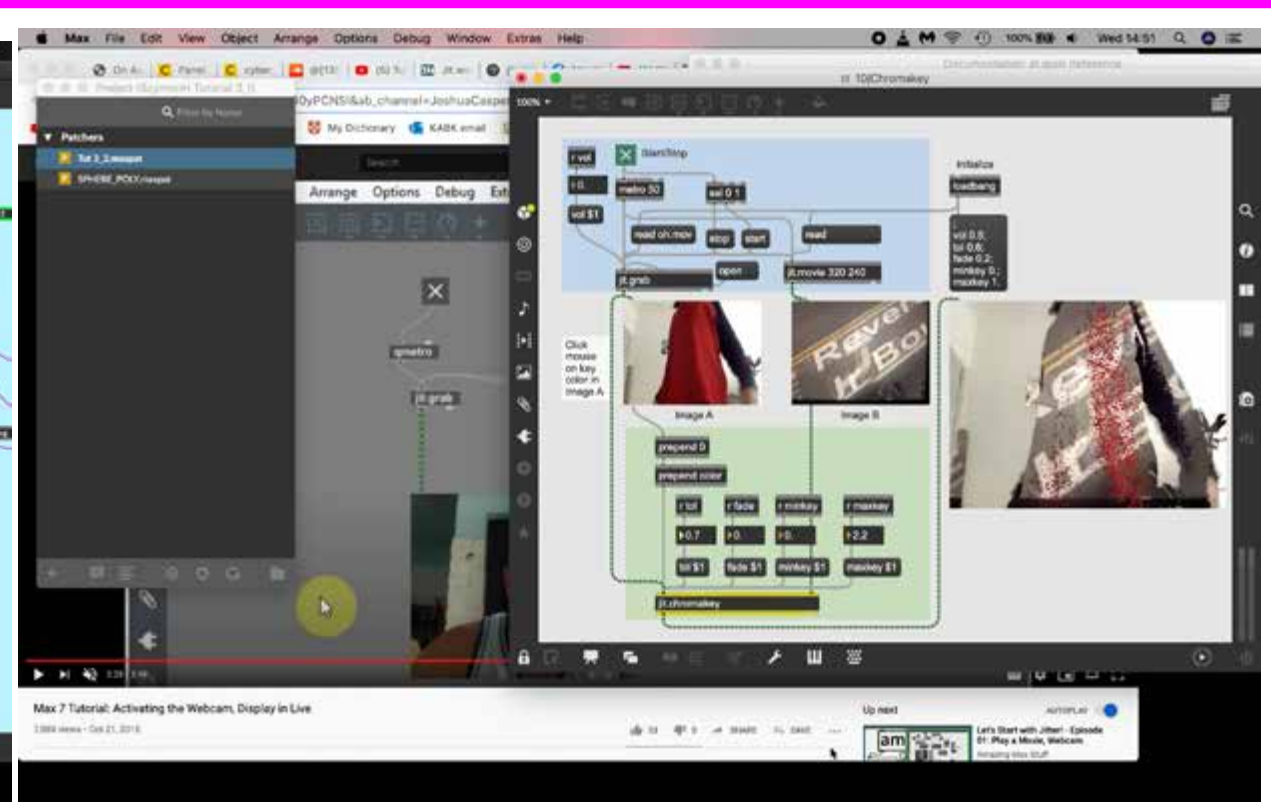
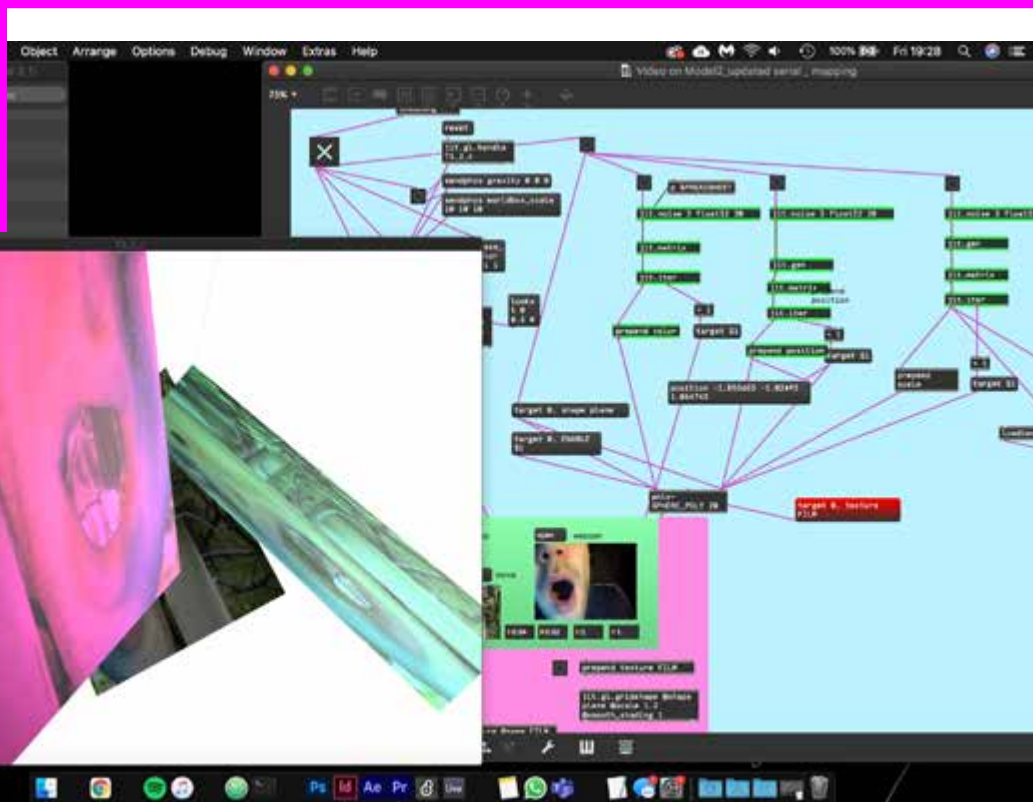
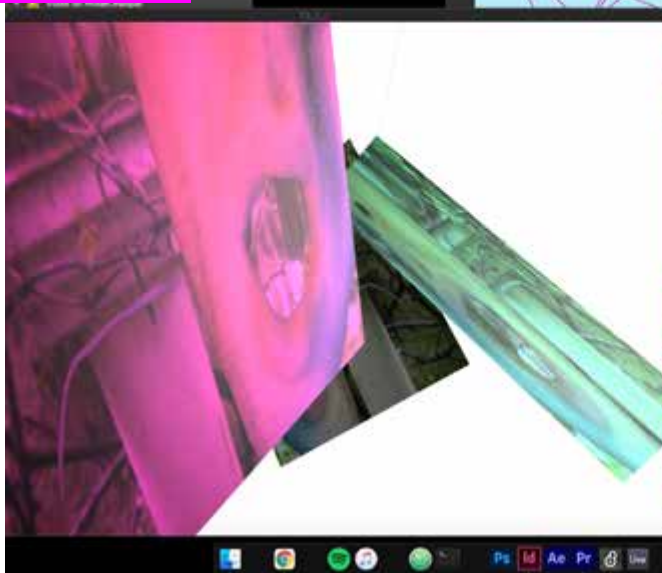
Lesson hours: 66
Self study hours: 80 approx.

Course led by
Rob Bothof
& Louis Braddock Clarke

Supported by Jaap Meijers

| | | | | | | | |
|-------------|---|--|------------------------------------|---|---|--|--|
| IST BLOCK 1 | CLASS 1 WEDNESDAY 04/02/2026 KICK OFF | CLASS 2 WEDNESDAY 11/02/2026 Workshop | Spring Break | CLASS 3 WEDNESDAY 25/02/2026 Individual Projects | CLASS 4 WEDNESDAY 04/03/2026 Workshop | CLASS 5 WEDNESDAY 11/03/2026 Workshop | CLASS 6 WEDNESDAY 18/03/2026 Workshop |
| IST BLOCK 2 | CLASS 7 WEDNESDAY 25/03/2026 Mid-Presentations | CLASS 8 WEDNESDAY 01/04/2026 | CLASS 9 WEDNESDAY 08/04/2026 | CLASS 10 WEDNESDAY 15/04/2026 | Final Class WEDNESDAY 22/04/2026 Presentations | | |

Outcomes



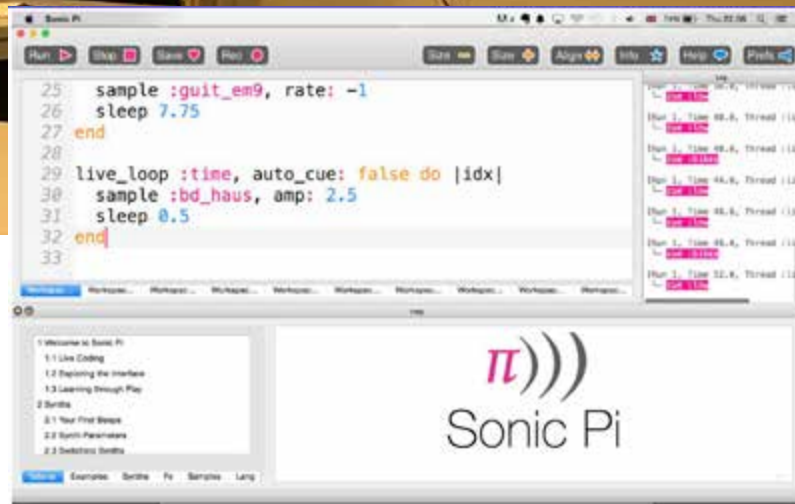
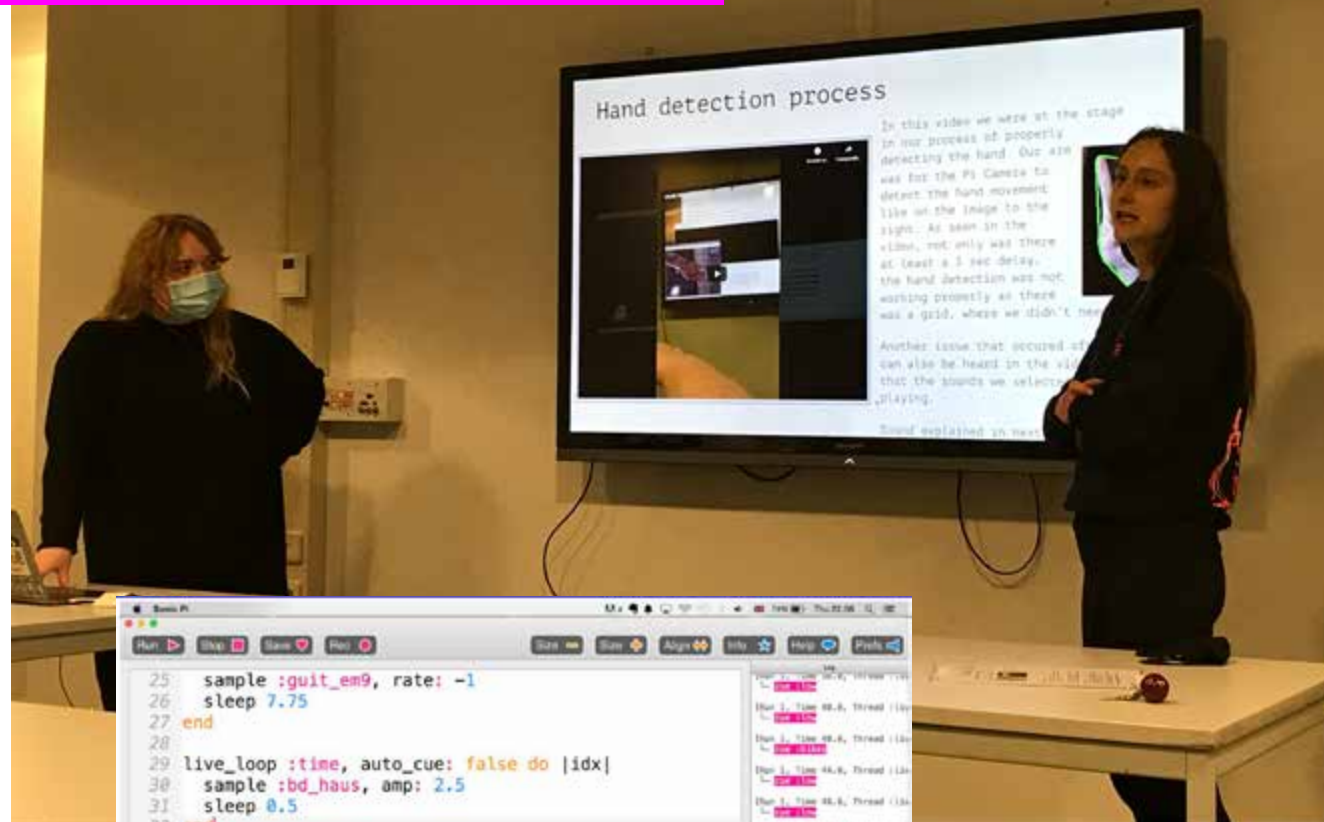
Szymon Hernik

Designing an Interface for live visuals

The project explores the 'total design' of an audio-visual software than can be controlled and performed live as a mixer. The dimensions of graphics are explored as a playfull experiment of what is real and what is fiction. Scale, colour, noise, textures, video-mapping can all be controlled through sliders and buttons with random inputs.

The content uses political and activist media from the current climate in Poland and adds a personal presentation of webcam interfaces. Three-dimensional objects like benches and orbs are used to map content into a new realm.

Outcomes

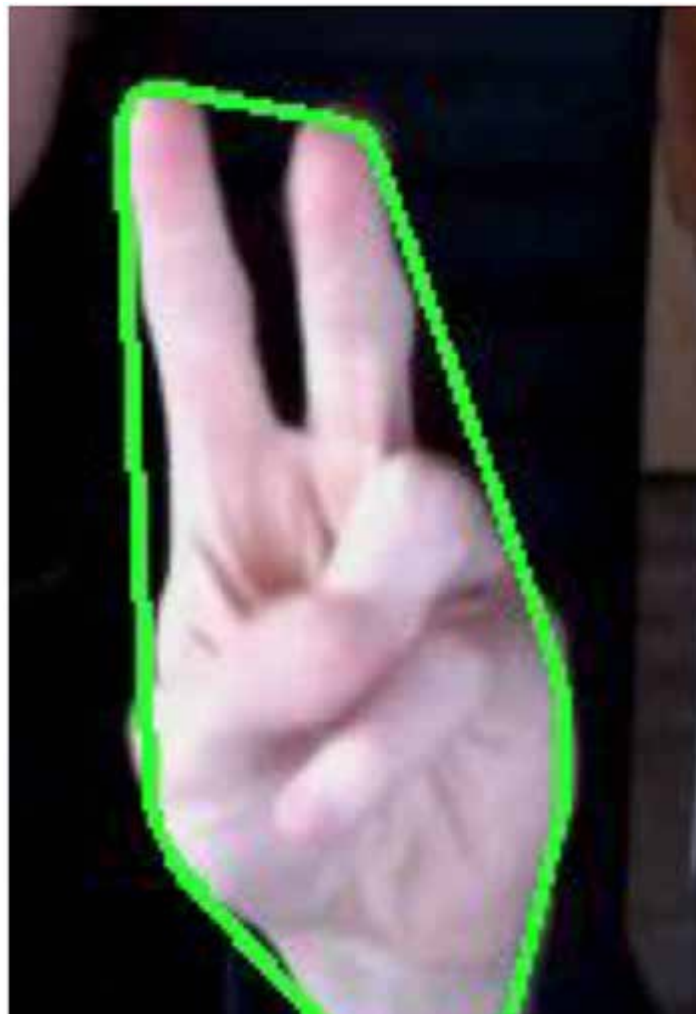


Luiza de Miranda Rosa Awad
Sandra Veerman

Sonic Data with algorithmic detection

Multiple technologies and software have been used to make the final outcome. Raspberry pis, arduinos, cameras, Open CV, sonicPi and processing.

The project uses a camera to identify shapes and then output a sound in accordance. Similar to the earlier designs of Thermins. The work acts as an instrument and interface between human and non-human decision making.



Outcomes



Techno-Choreography as bodily extension

Through using the body as a power instrument, interface and extension of emotions technologies can be sent signals. Using methods from techno-feminism and playful creative coding a performance is built using body sensors; EEG and Vaginal.

Through programming and elaborate hardware the muscular movements of the body send signals via WiFi to a series of drums. The drums play back in a feedback-loop signal. The final outcome is a dance performance with out-of-body percussions.

The work was presented at the Greyspace in the Middle.

Pamela Soria
Switches



RENTAL

Sound Equipment

EWC –Electronic Werkplaats
Part of the Department of
Sonology –KonCon

Microphones
Speakers &
Mixers
Amps

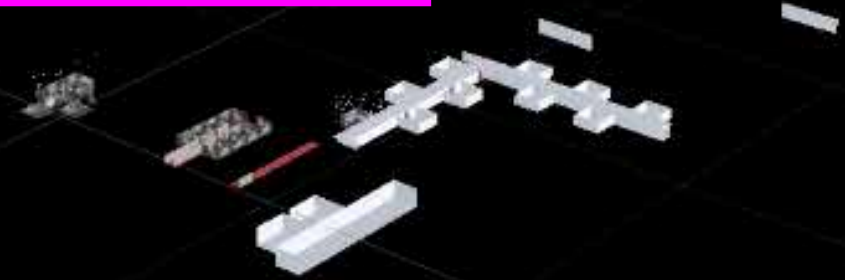
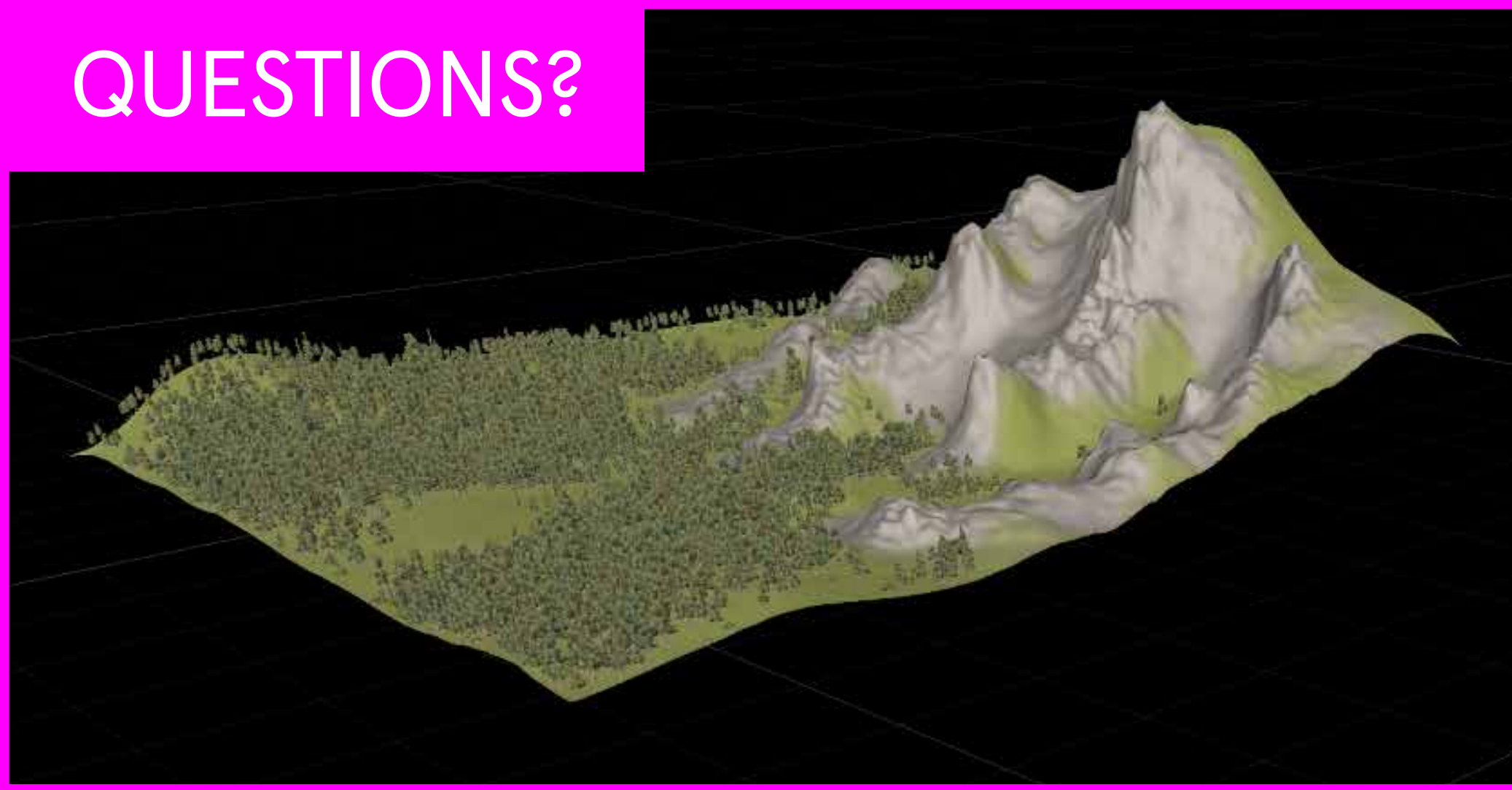
Electronics

The HackLab space
by Jaap Meijers

Open 2-3 days a week
Rental through Student Card

Rent a Arduino kit
Buy small electronics
Rent sensors and dev. boards
Use soldering stations
Use oscilloscopes
Use giant breadboards

QUESTIONS?



Reading List

Hito Steyerl
**A Sea of Data:
Apophenia and
Pattern (Mis-
)Recognition**

This is an attempt to use the `Function` class. It is
 (subject) to several (2) Valid concerns and something's going
 on

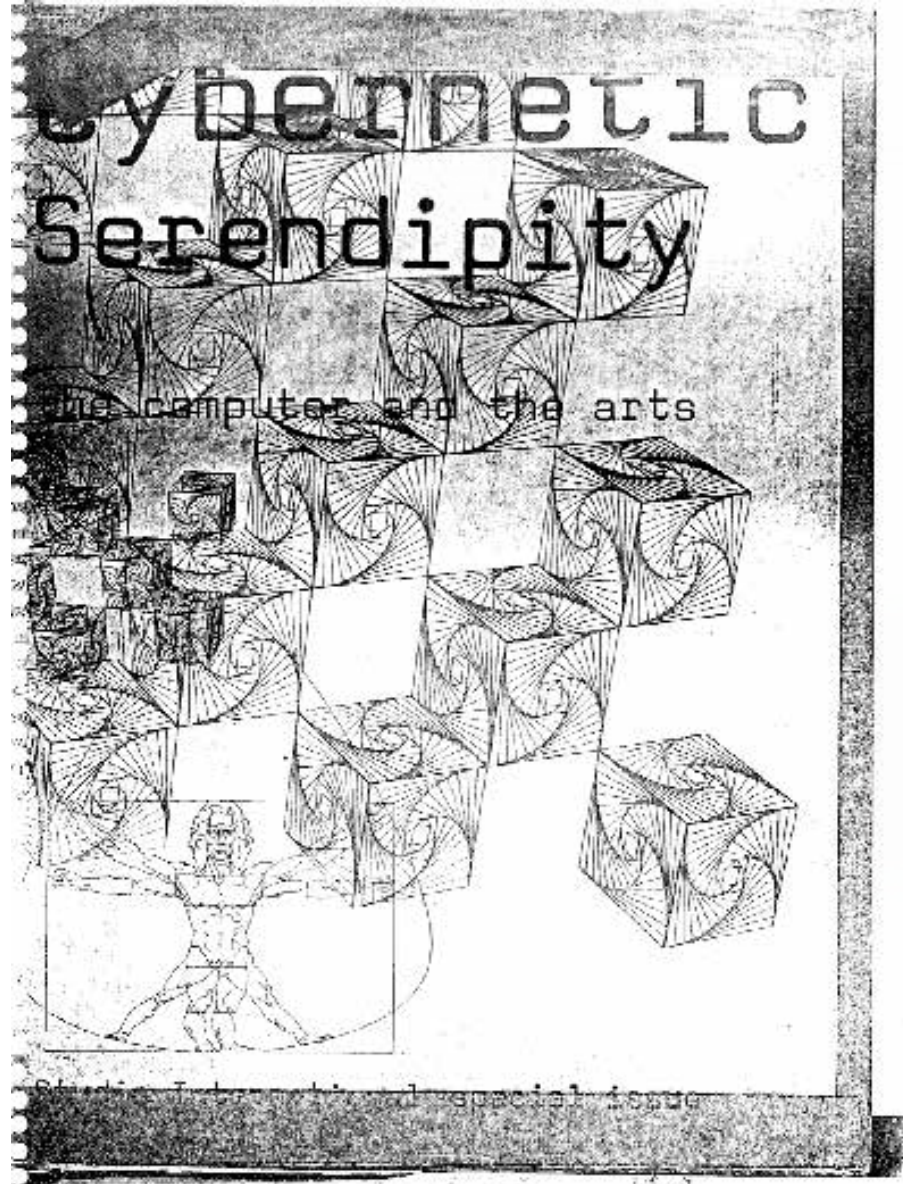
1980

[illegible]

But since carrying out the primary mission is a huge task, not only for the NSA but for much of the rest of the government as a whole, agency time was the time of a column on the internal NSA website running from 2011 to 2012. It currently states the NSA's main goal is to "conduct, coordinate, and support the NSA's cryptologic mission." Information from the NSA is classified "Secret."

It's not about the data or even access to the data. It's about getting information from a much wider set of data... Developers, please! Just let it be a running text: working in a sea of data – with data, data everywhere, but not a drop of information.²

Analysis and interpretation:



Oleksiy Radynski

Is Data the New Gas?

IN BRUSSELS ON MARCH 2, 2019, KIM POTTS, then-US energy secretary, was accused that "current policy jeopardizes the future of American Youth from Green energy occupations, the US and States was again delivering a form of freedom to the European continent." And, in the twenty-first century, he added, "to live their lives in the form of young American citizens, the US and States of Expanded natural gas." POTTS was referring to the deal that would double the size of US gas exports to Europe. But from what exactly would POTTS's "freedom gas" liberate Europe?

Italy's accident at sea meant some air support had to be diverted to the Adriatic. The project that Russia and Germany have been pursuing since the 2010s to link the two countries is directly via the Baltic coasted. The pipeline's route bypasses intermediate countries like Ukraine, whose state budget depends on the transit of gas. The project is expected to double the capacity of the already existing Nord Stream pipeline, increasing the volume of flow rate that gas up to 110 billion cubic meters a year. In 2020, Moscow's government refused to allow in federal this obligation and infrastructure project that has been merged in south country from the start.

Of a very different nature, the oil pipeline facing the Nord Stream 2 project comes from a different place, rather than being a top-down initiative. It is the result of a public-private partnership between Germany's private energy companies and Russia's state-owned Gazprom. It is also quite clear that the issue is political, not just for this project, but for broader relations between the two countries. The German national gas supplier, which runs through large parts of the company's pipeline network, is a key element of its energy security. Following Russia's invasion of Ukraine in 2022, Germany's government's adherence to the Nord Stream 2 project has not ceased to raise questions. At the same time, the project's progress has been slowed down by a series of measures taken by the European Union, including a ban on Russian gas imports, and the ongoing sanctions against Russia itself. The project is now in a state of limbo, and it is unclear whether it will ever be completed. The fact that the project is still in the news is a testament to the importance of energy security in the current world. The Nord Stream 2 project is a complex issue that involves a number of different stakeholders, and it is likely to remain a topic of discussion for some time to come. The project's fate will depend on a number of factors, including the political situation in Europe and the relationship between Germany and Russia. It is clear that the project is not just a matter of energy, but also a matter of politics. The Nord Stream 2 project is a testament to the importance of energy security in the current world, and it is likely to remain a topic of discussion for some time to come.

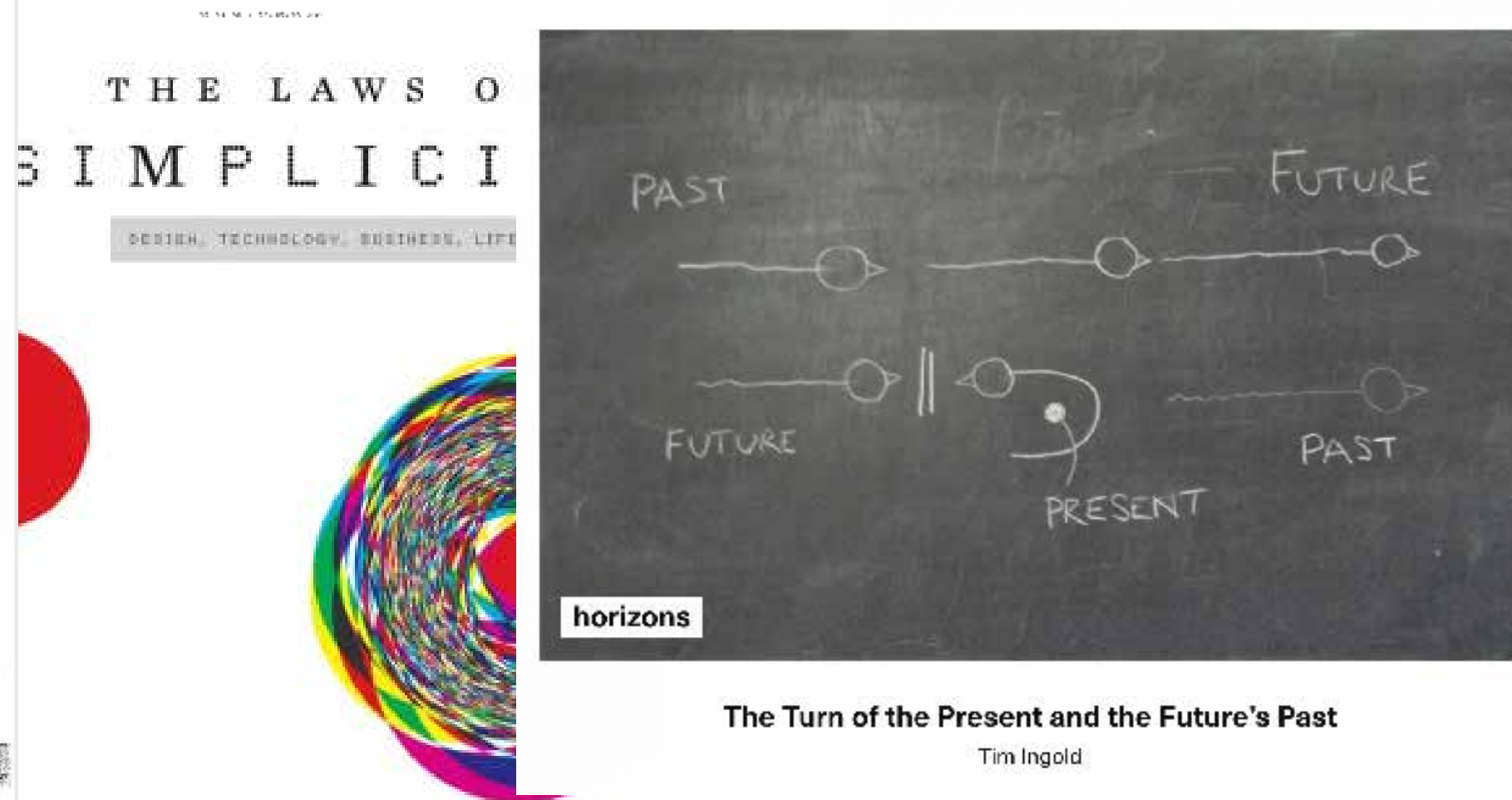
The intricacies of the ongoing Nord Stream 2 debate, however, miss a rather large elephant in the room. Without questioning the importance of countering Russia's neoconservatives in Ukraine and elsewhere, it is easy to see why the biggest problem with this new pipeline is not at all the fact that it will deprive Russia's neighbors of their transit revenues. Such revenues, in fact,

A Manifesto for Cyborgs: Science, Technology, and Socialist Feminism in the 1980s

by Donna Haraway

An Ironic Dream of a Common Language for Women in the Integrated Circuit

THIS ESSAY is an effort to build an ironic political myth faithful to feminism, socialism, and materialism. Perhaps more faithful as blasphemy is faithful, than as reverent worship and identification. Blasphemy has always seemed to require taking things very seriously. I know no better stance to adopt from within the secular-religious, evangelical traditions of United States politics, including the politics of socialist-feminism. Blasphemy protects one from the moral majority within, while still insisting on the need for community. Blasphemy is not apostasy. Irony is about contradictions that do not resolve into larger wholes, even dialo-

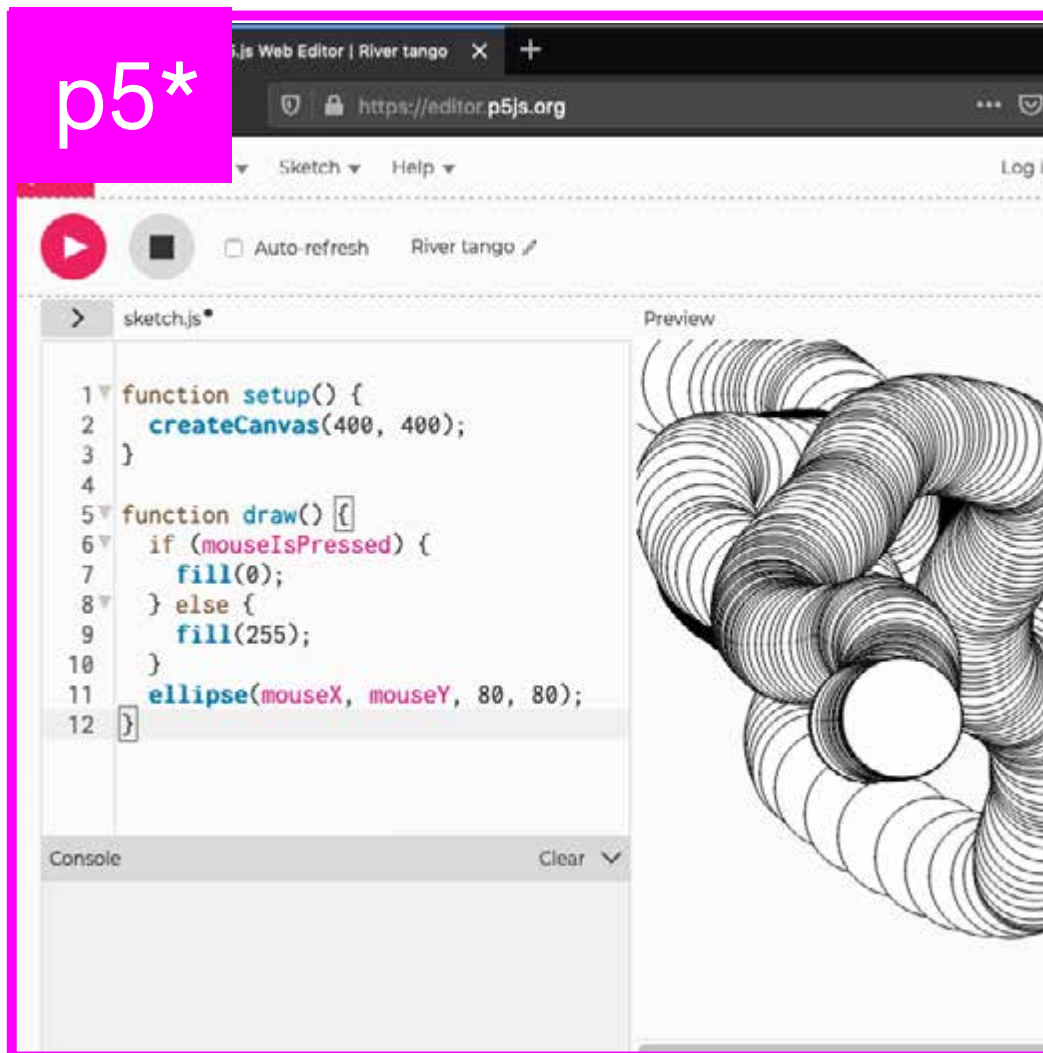


The Turn of the Present and the Future's Past

Tim Ingold

John Maeda

p5*



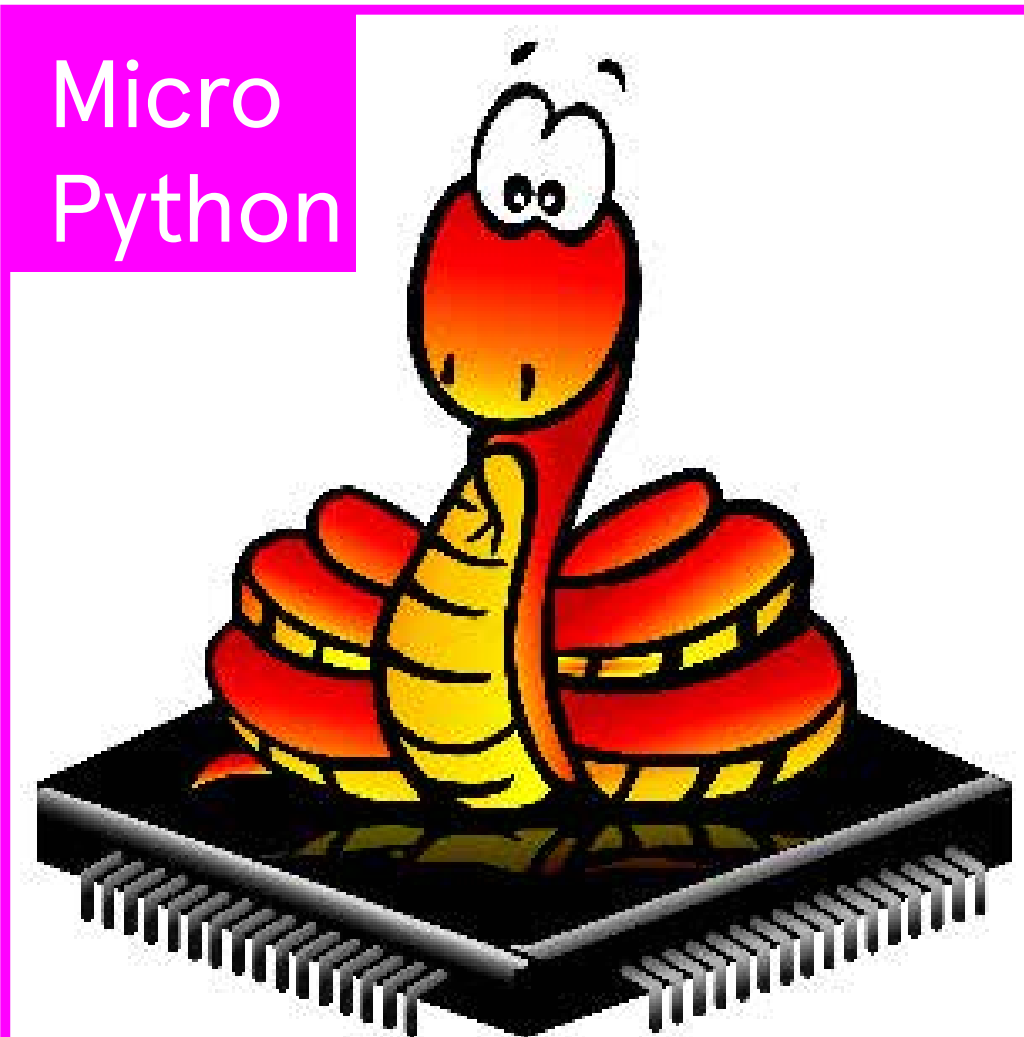
Arduino



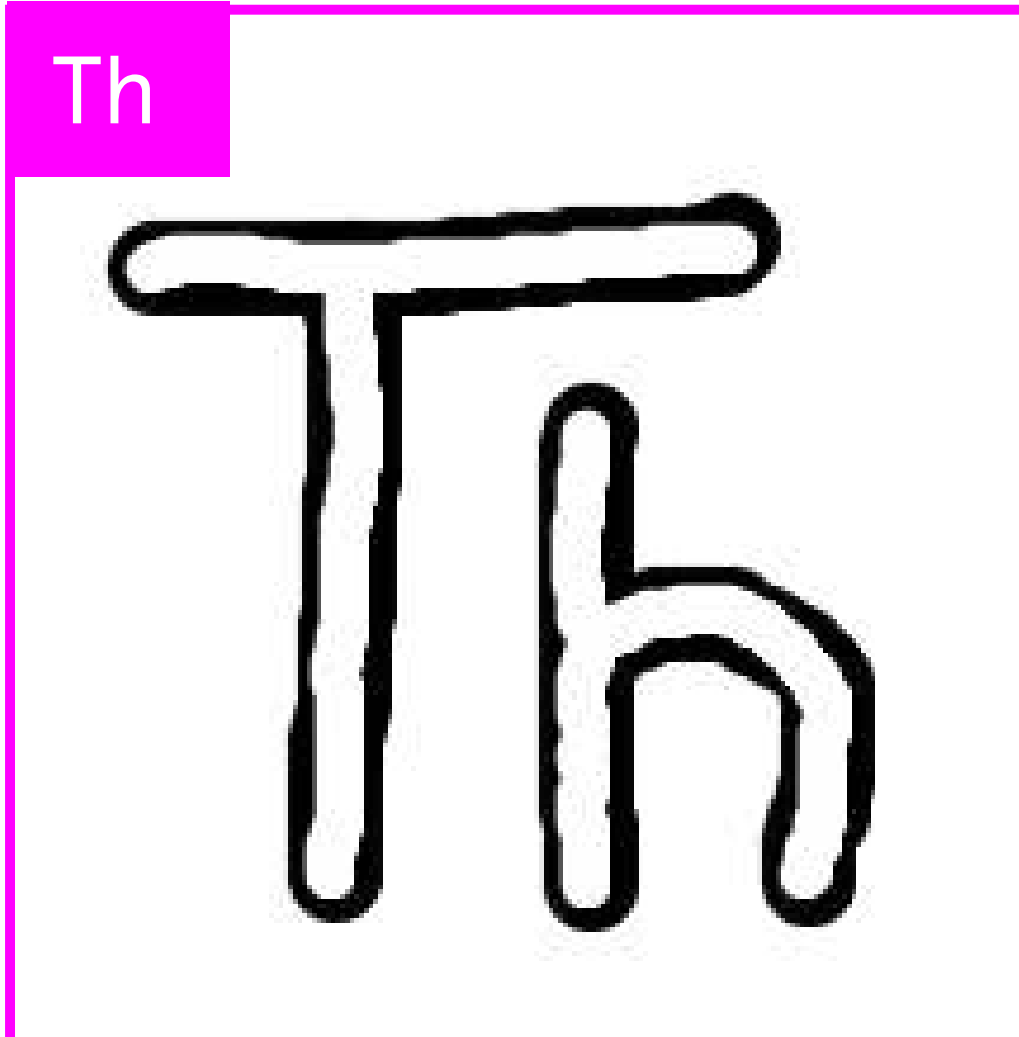
PICO



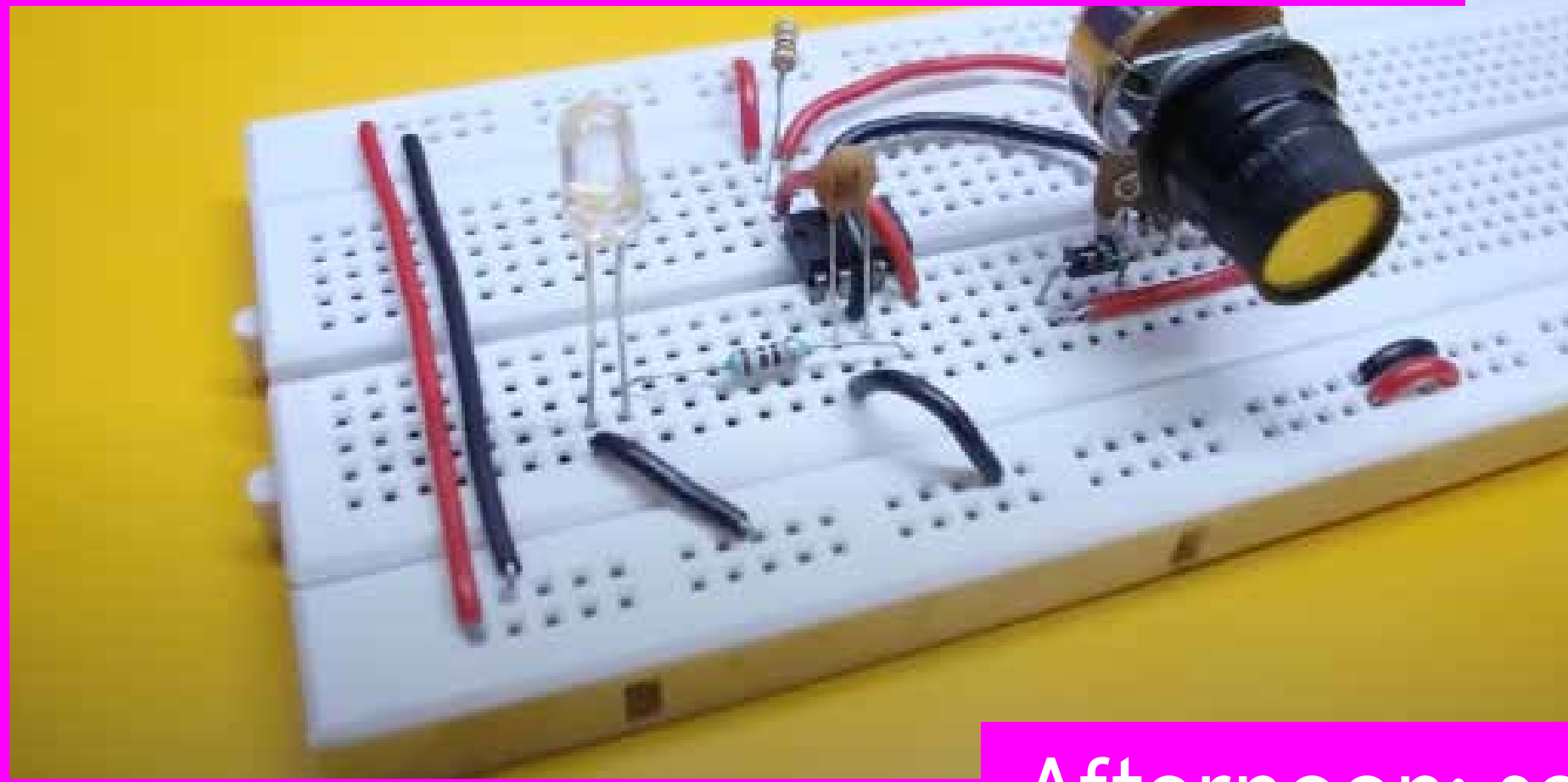
Micro
Python



Th



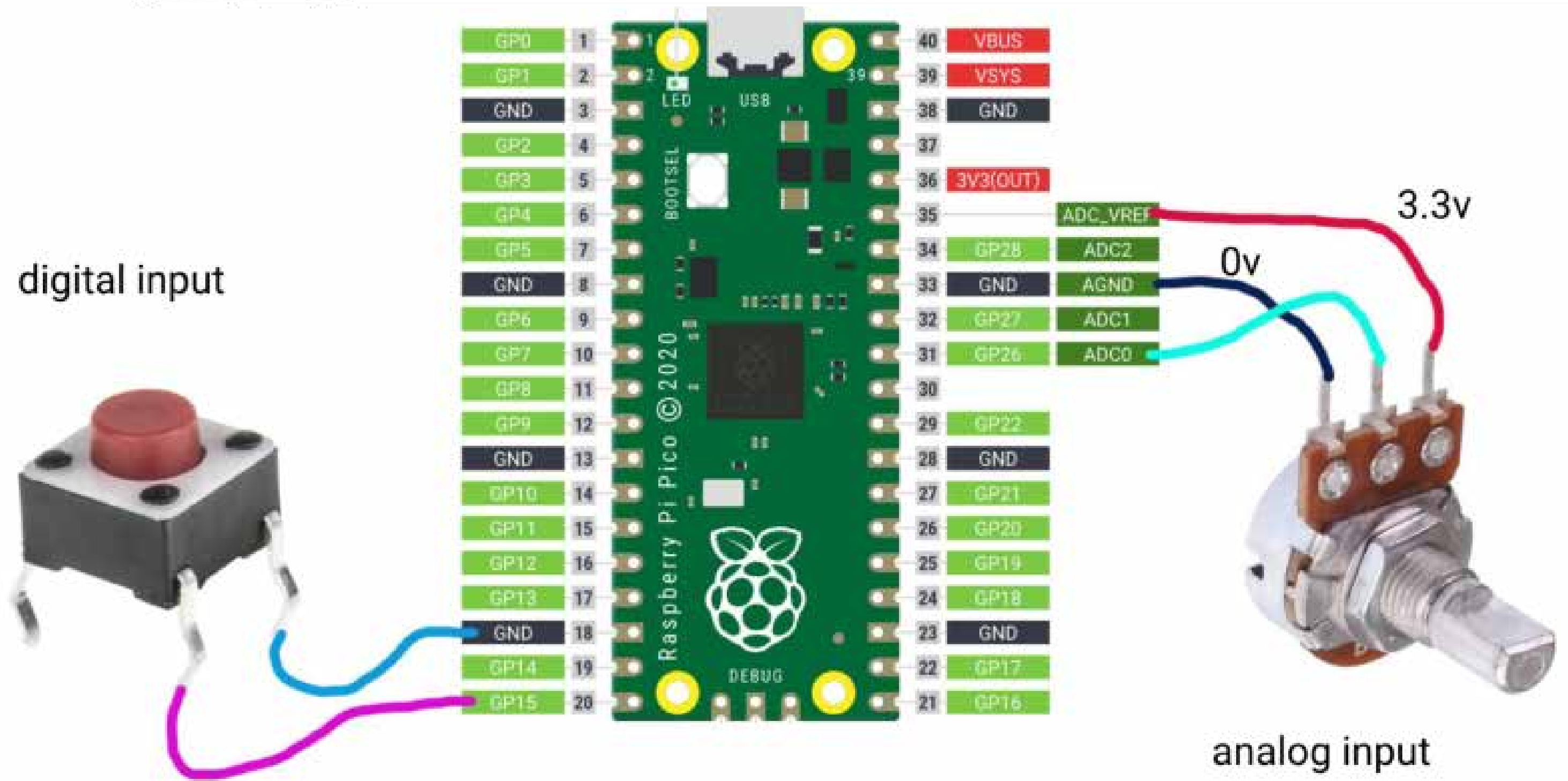
PICO: Lesson 1 – tutorial



Afternoon: self-study examples



digital input



analog input