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Embodied Interaction

Exploring the body
as interface

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- my journey :-)
- creative coding
- body as interface
  - 1 – motion
  - 2 – code
  - 3 – design

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a designer lost in the world of code ...

my journey

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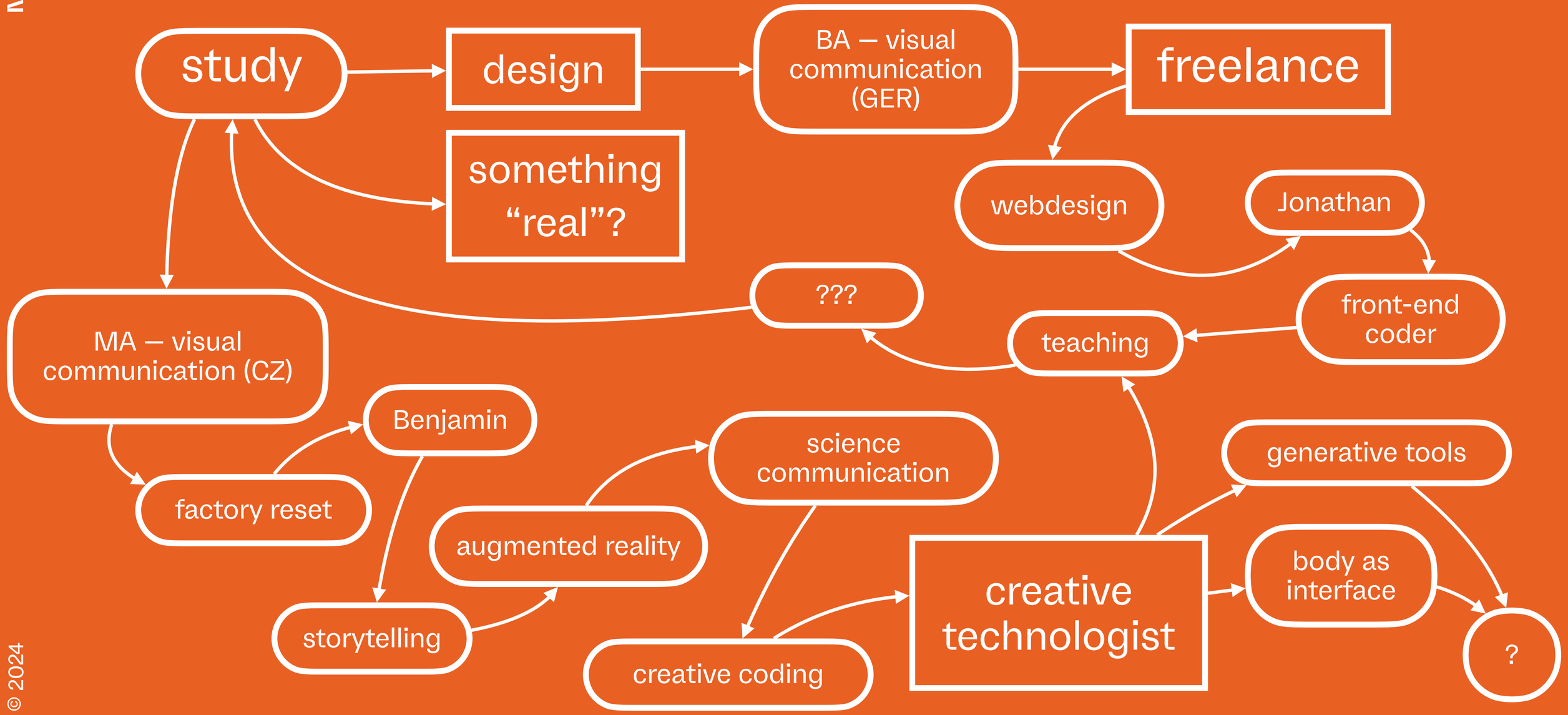
my journey



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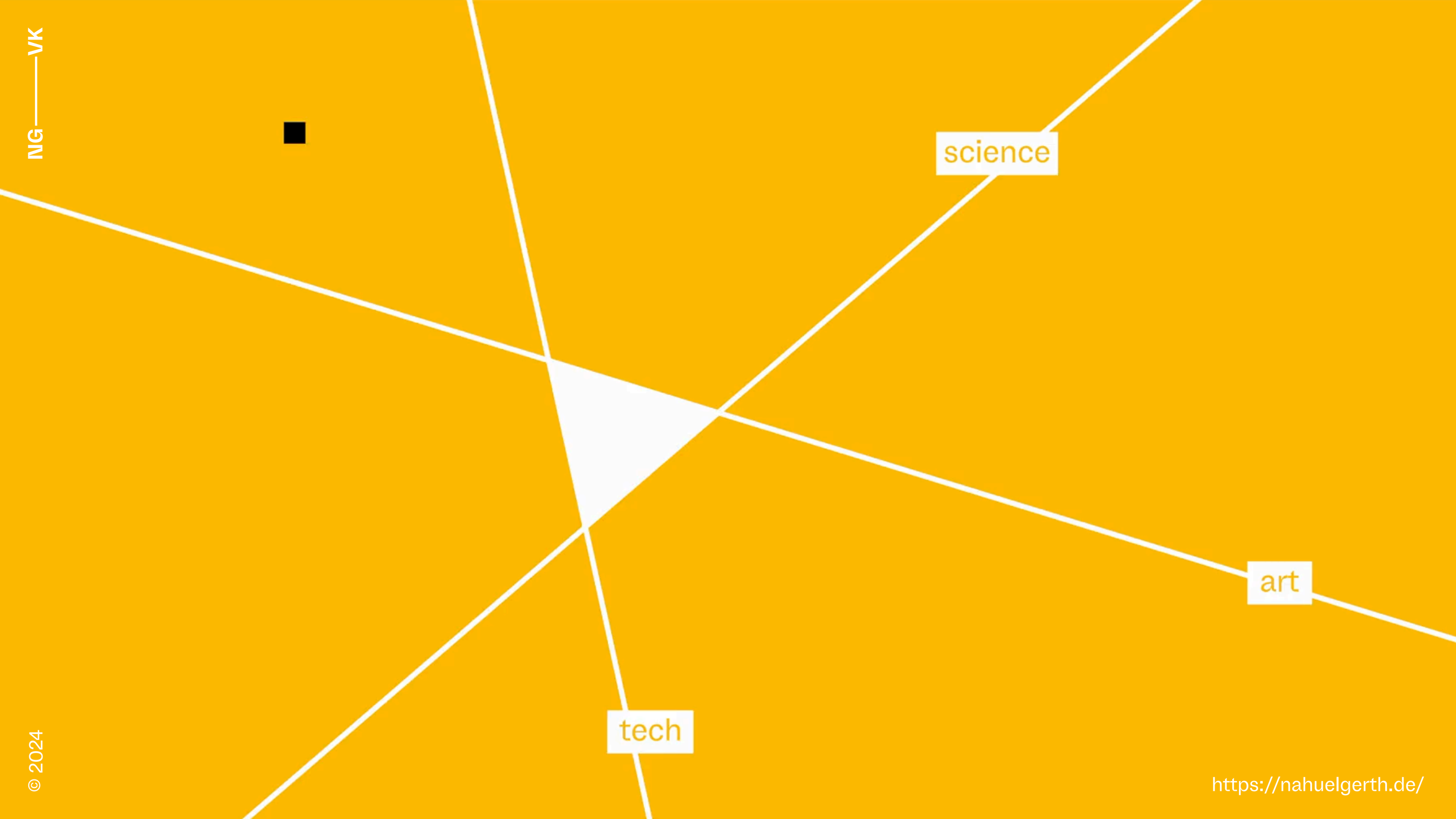

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https://nahuelgerth.de/

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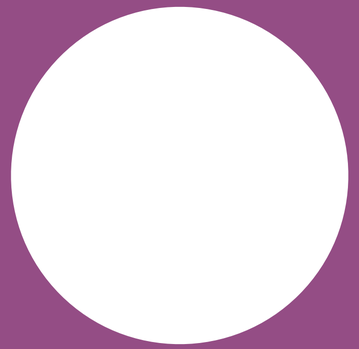

what is creative coding?

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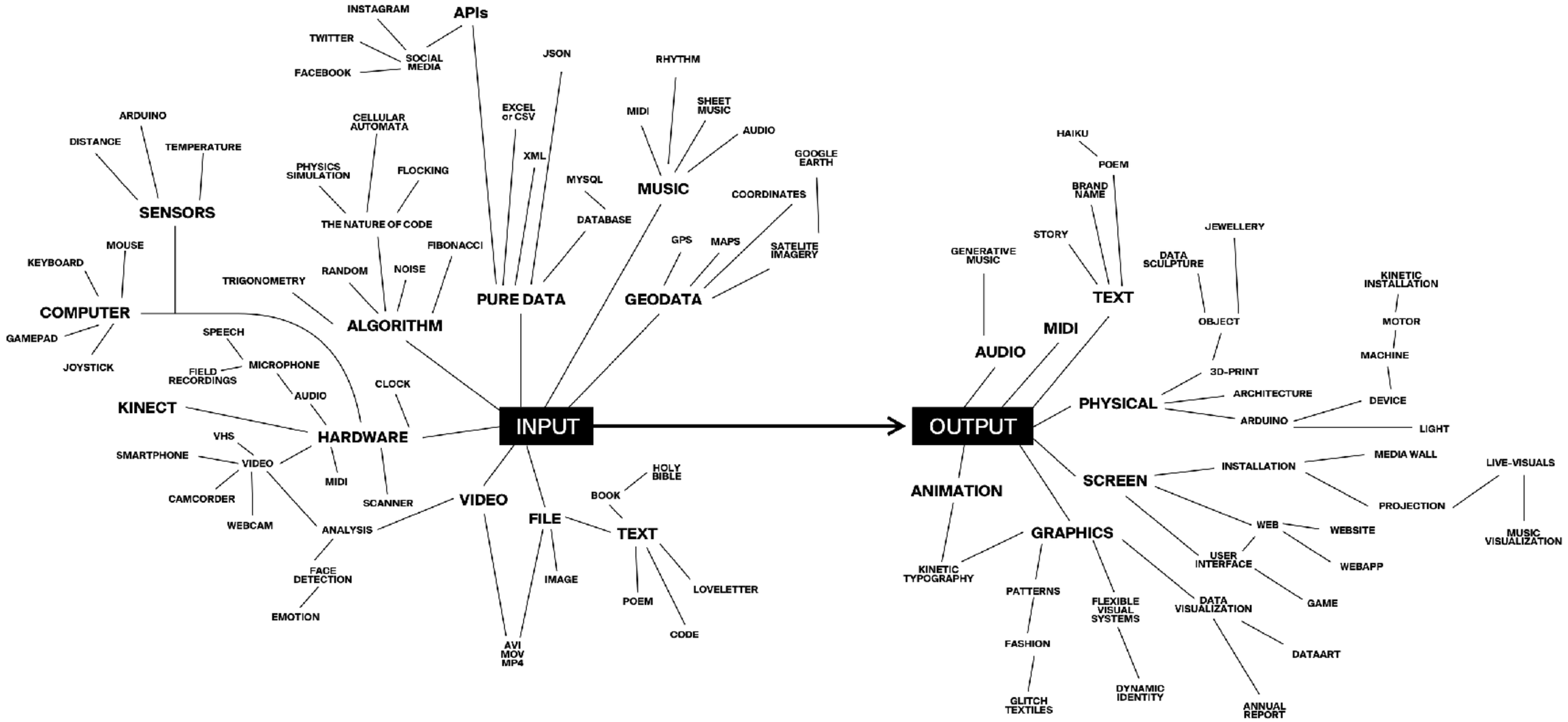

Patrik Hübner & Tim Rodenbröker
https://master.timrodenbroeker.de/definition.php

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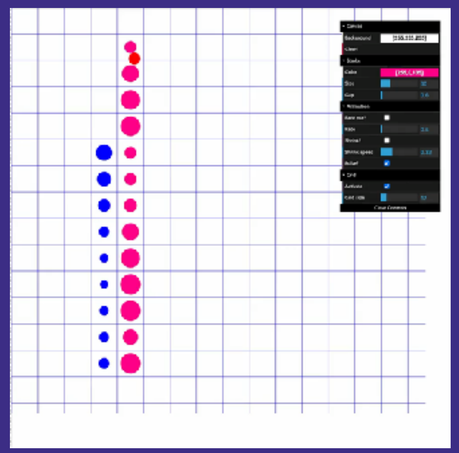
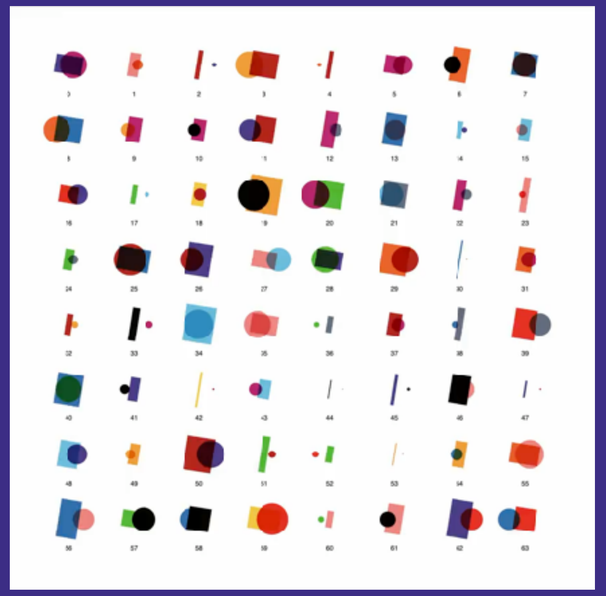
coding

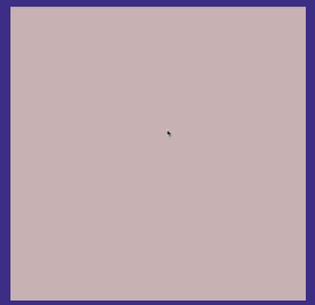
… interaction

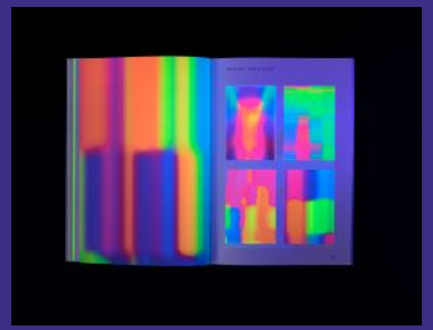
… design

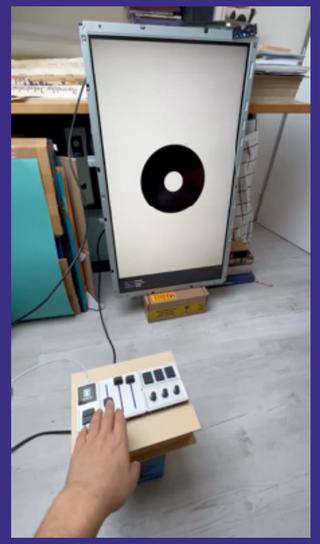


… motion









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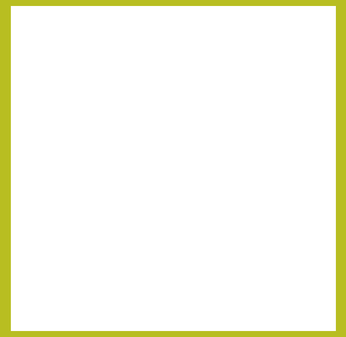

body as interface

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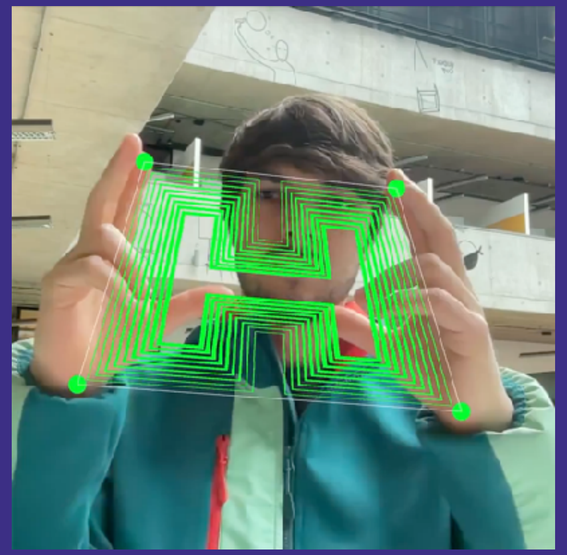
How it started



36 Days of Type, 2023

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what is embodied interaction?

- → exploring the body as an interface
- → using body language as a tool to talk to machines
- → reconnecting to my own body and mind
- → exploring augmented reality
- → creating playful prototypes
- → having fun
- → opening up new paths

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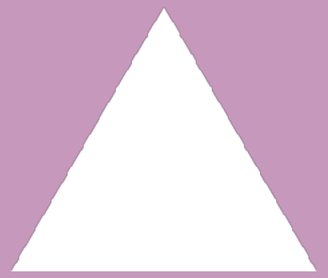

1 — motion

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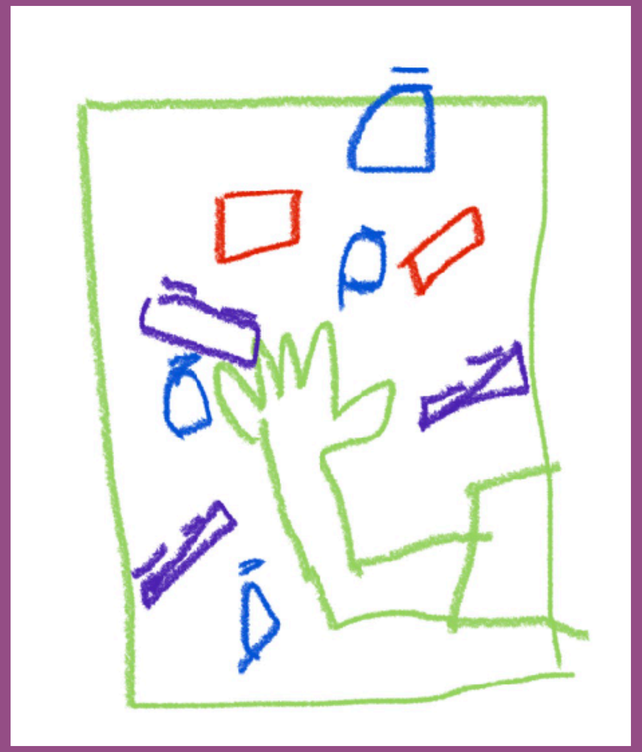
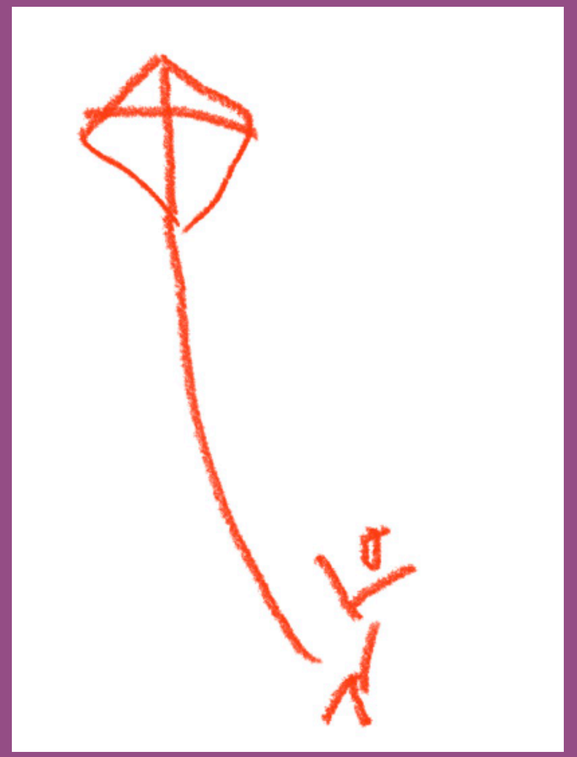
step 1 — which gesture?



wave legos

letter shower



I love kites!

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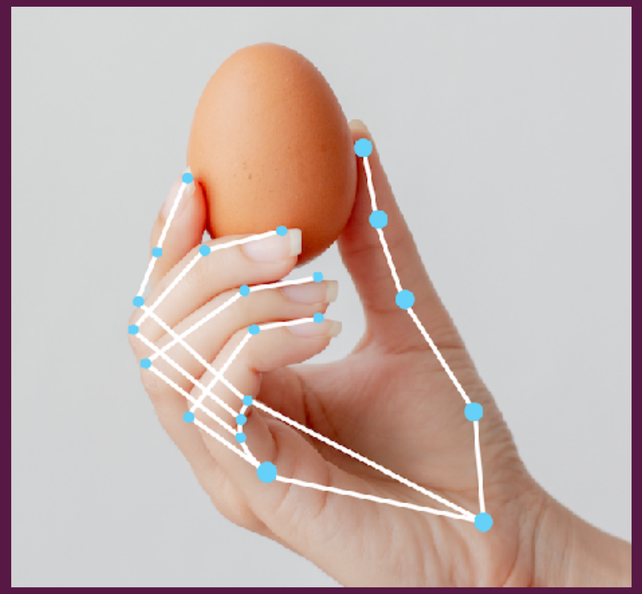
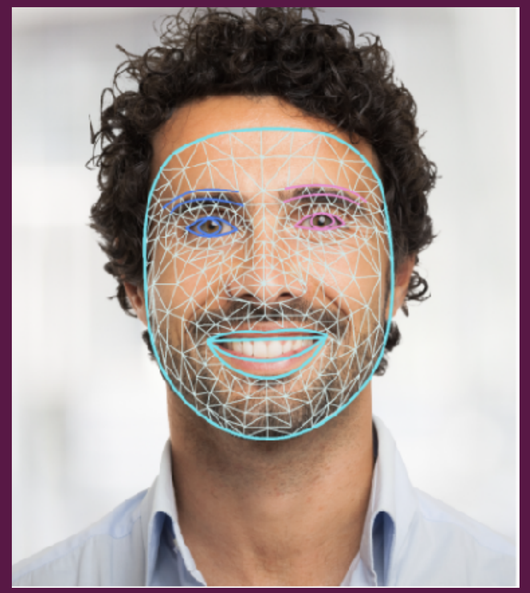
step 2 — which model?

pose?



hand(s)?



face?

multiple?

https://ai.google.dev/edge/mediapipe
https://codepen.io/mediapipe

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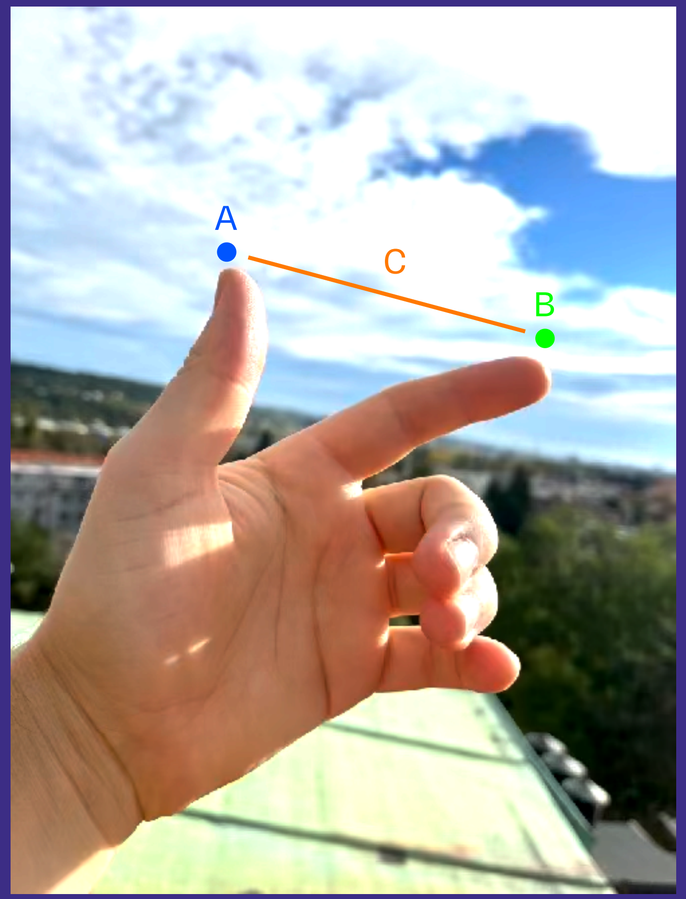
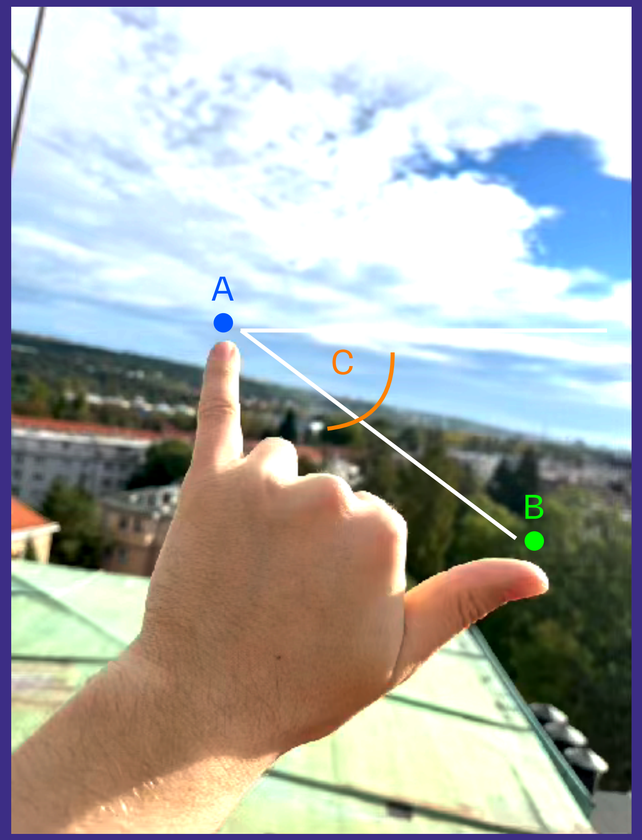
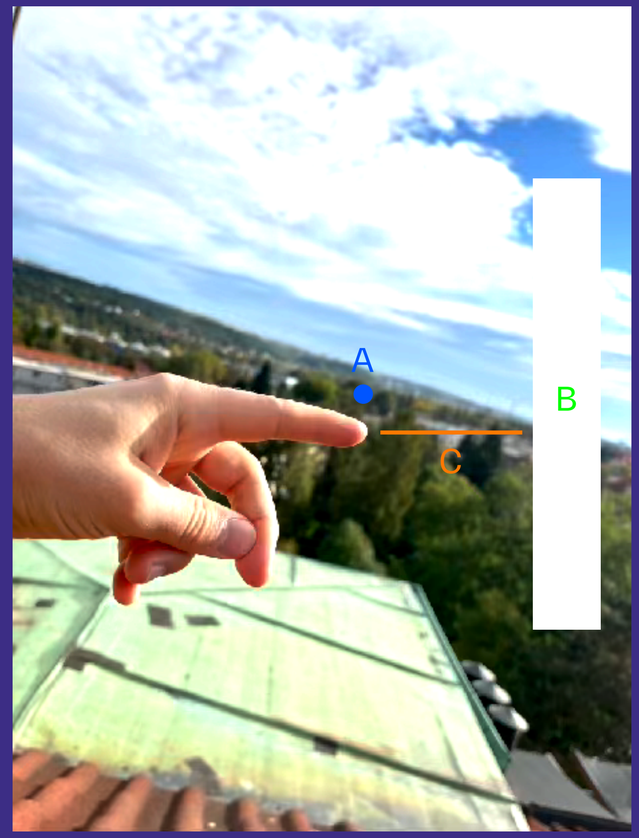
step 3 — which points?



distance



angle



distance

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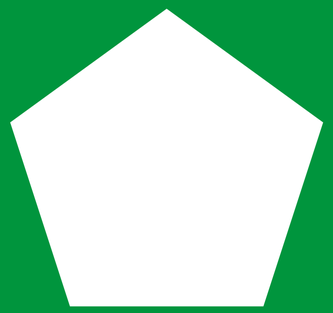

2 – code

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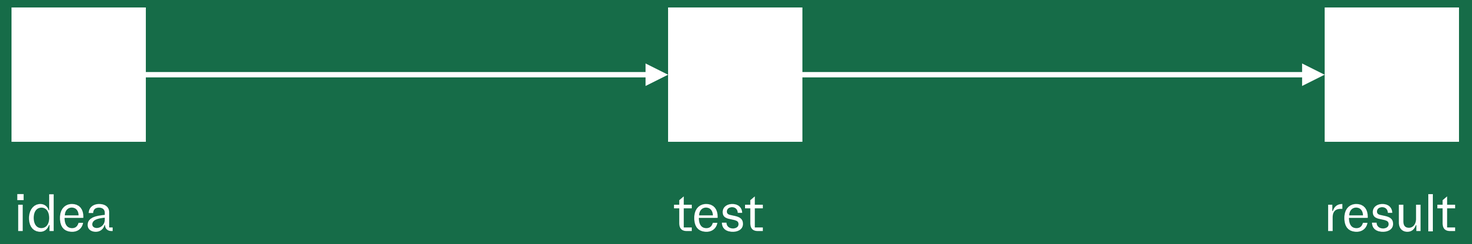
expectation



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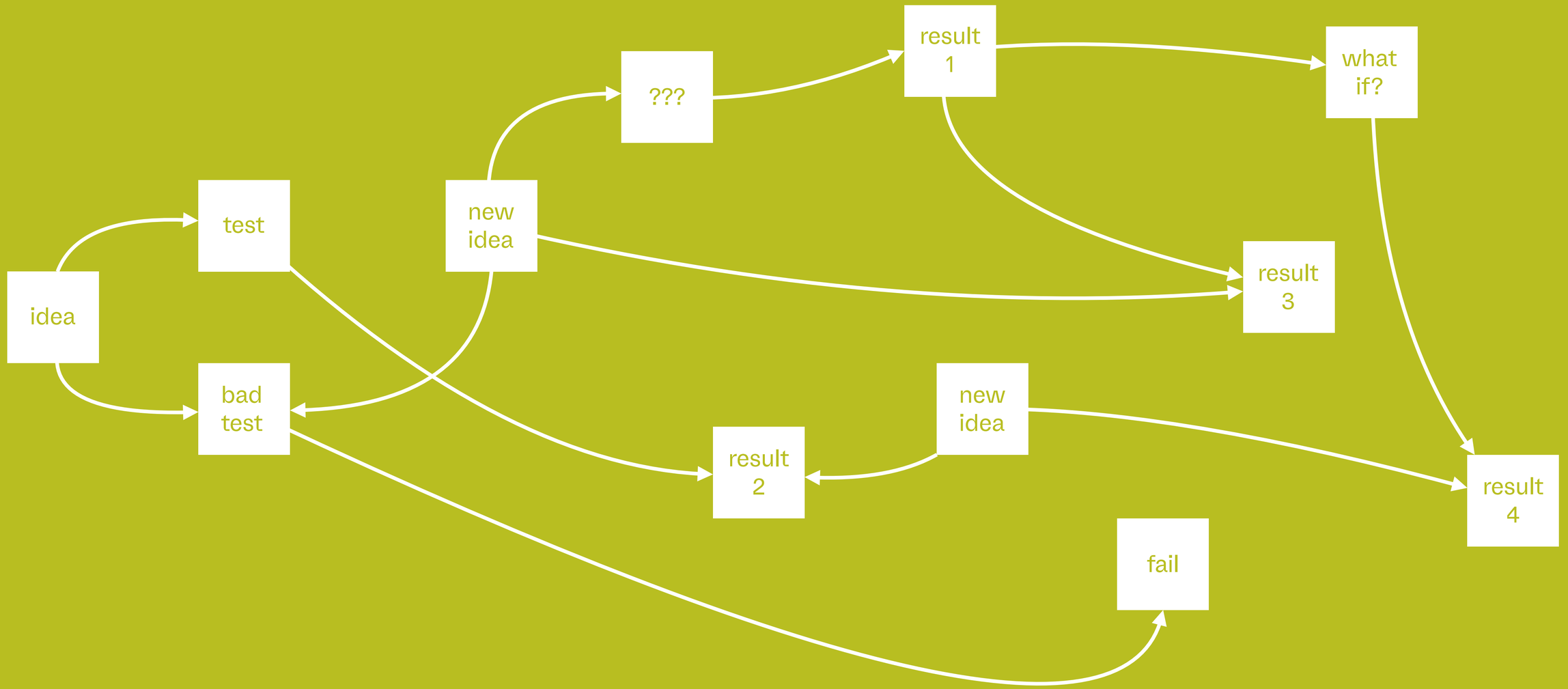

reality: the iterative process

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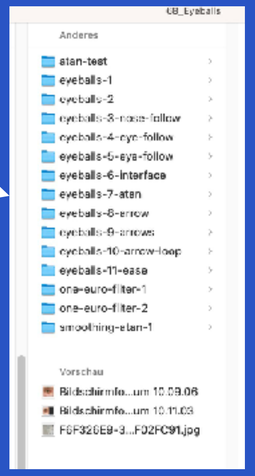
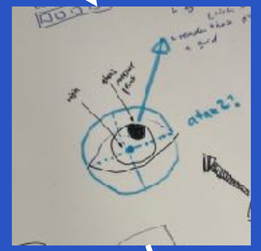
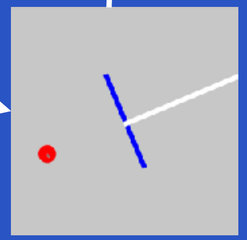
vague ideas

tracking points





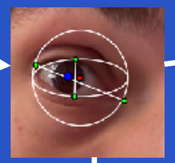
atan2?



atan2 test

atan eyes?

damn, I really need an interface



goggly eye?

two arrows?

add smoothing!

moooore arrows!

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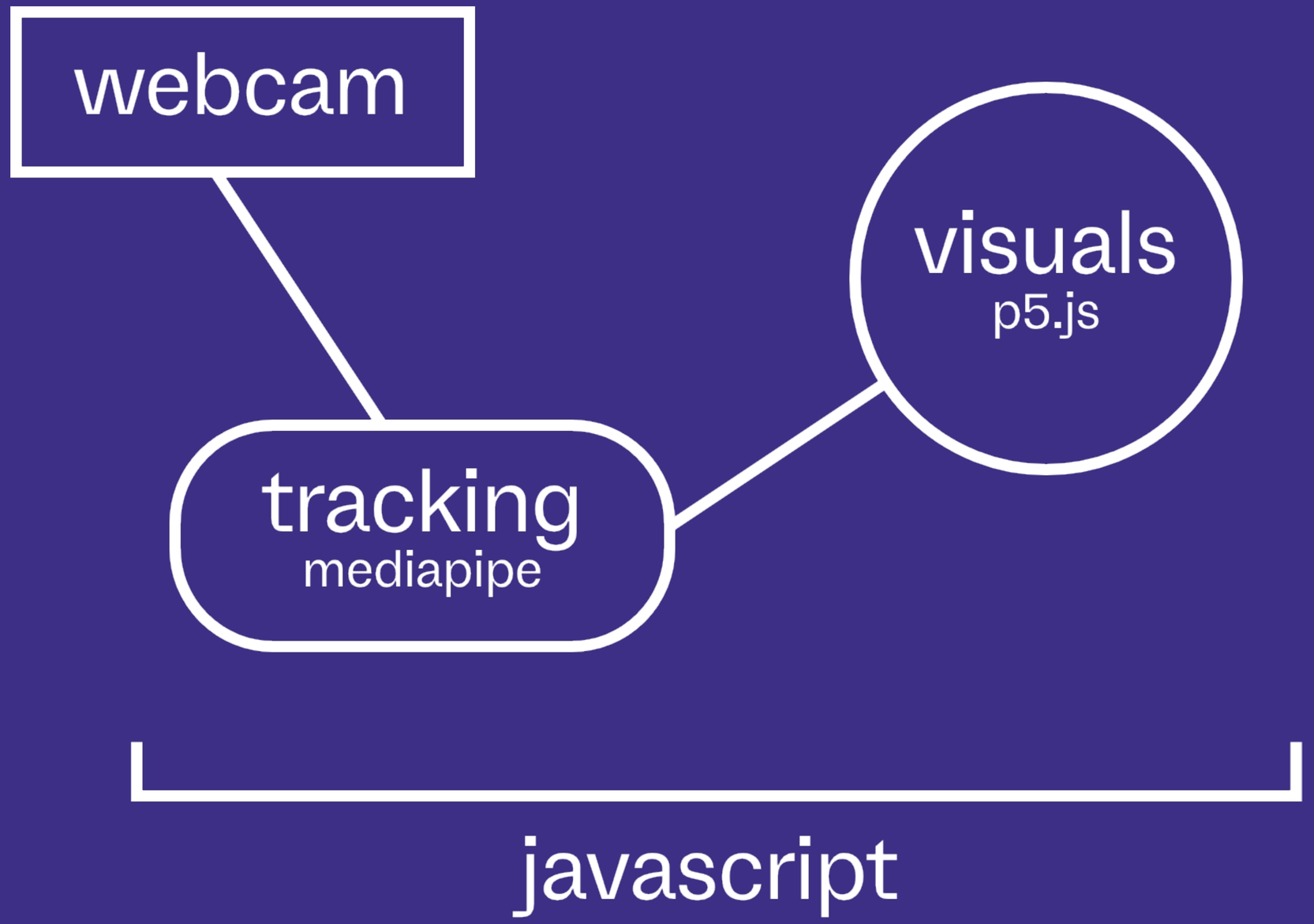

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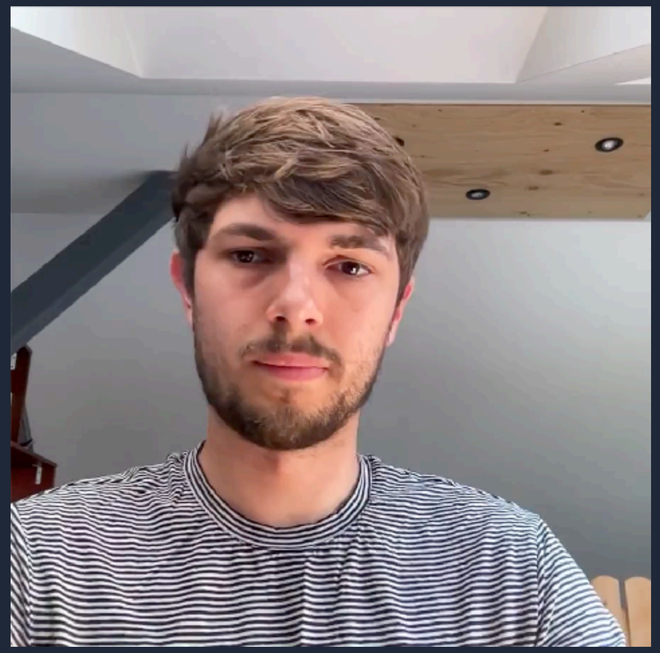

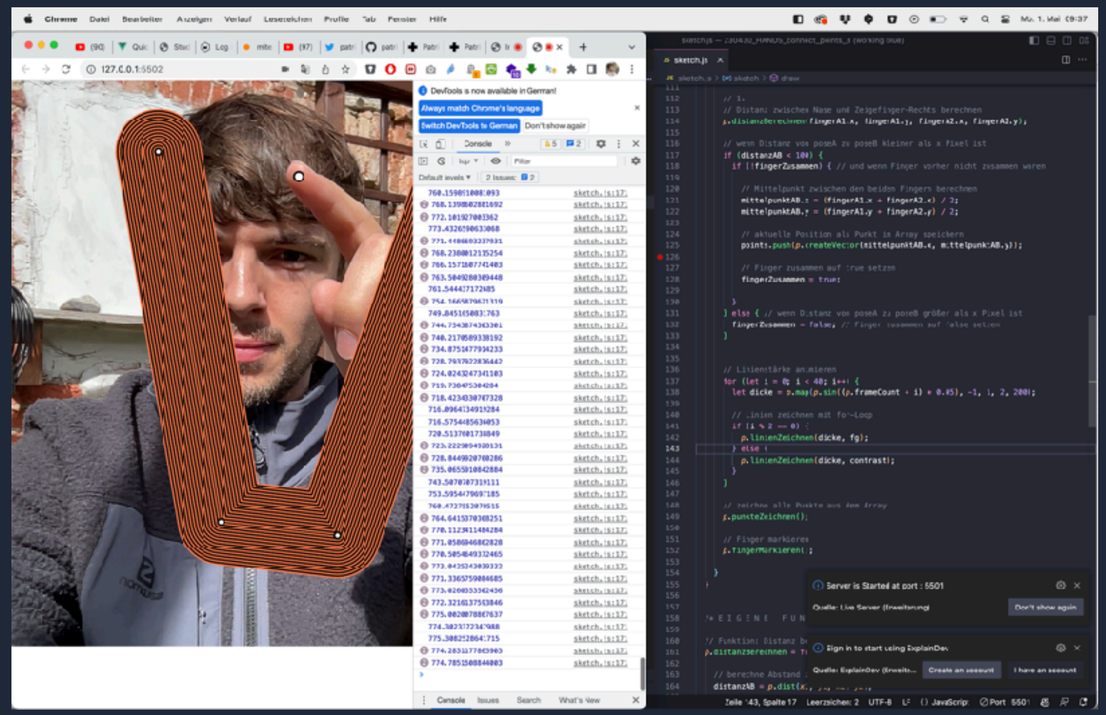

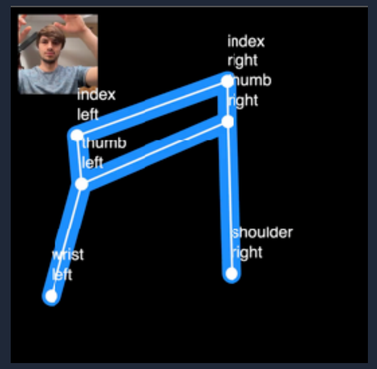

testing ... hello world

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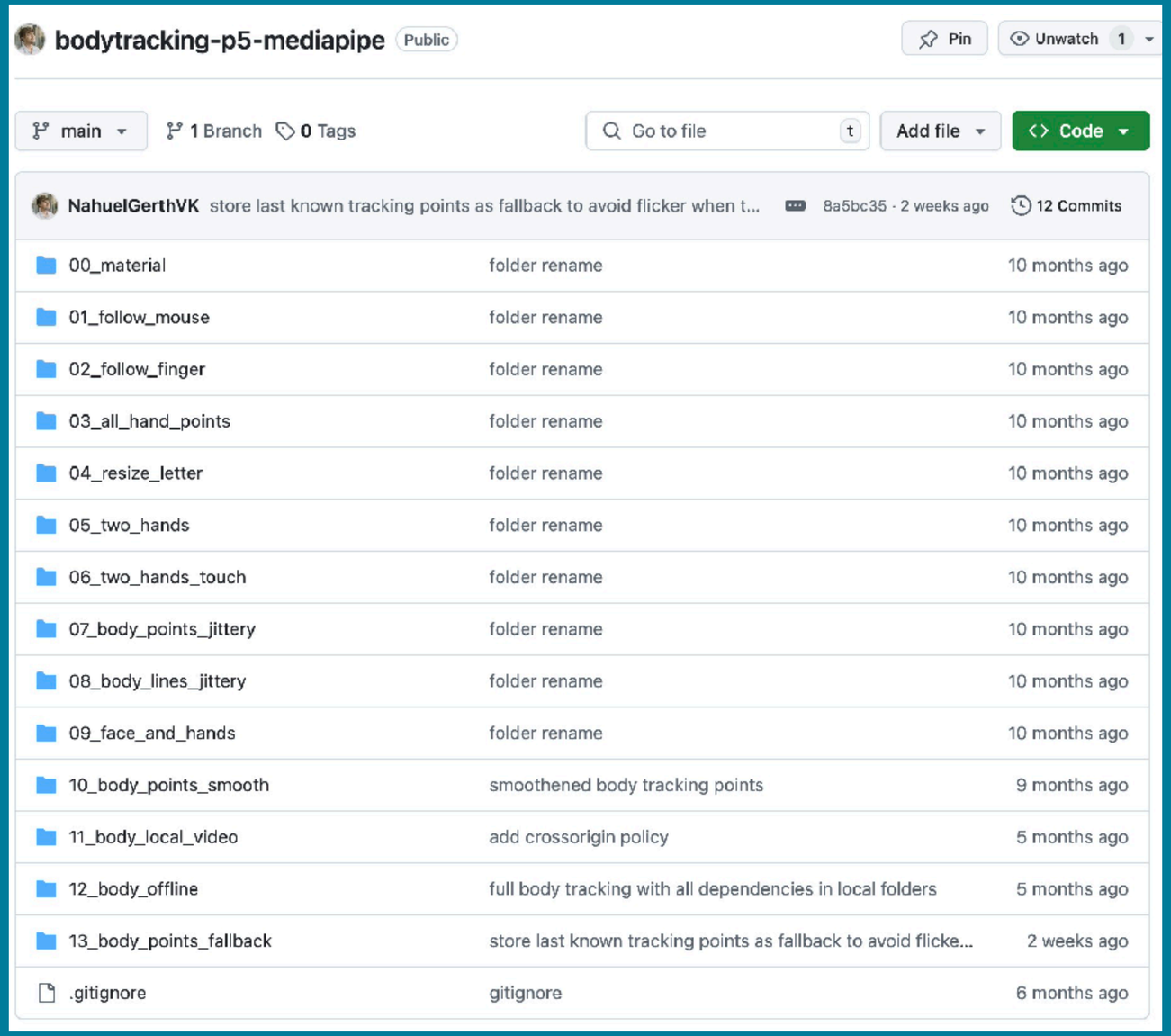
starter files:

github.com/NahuelGerthVK/



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iterate, combine, document

→ iterate, re-iterate, re-iterate

→ work in baby steps

→ document everything!

→ watch out for happy accidents

→ build an archive

→ let the process guide the results

→ open end

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3 — design

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Color, shape, performance

→ look & feel: typography, layout, colors, shapes

→ storytelling

→ video setup, composition

→ performance, collaborations

→ make it look good & feel fun!

→ go crazy …

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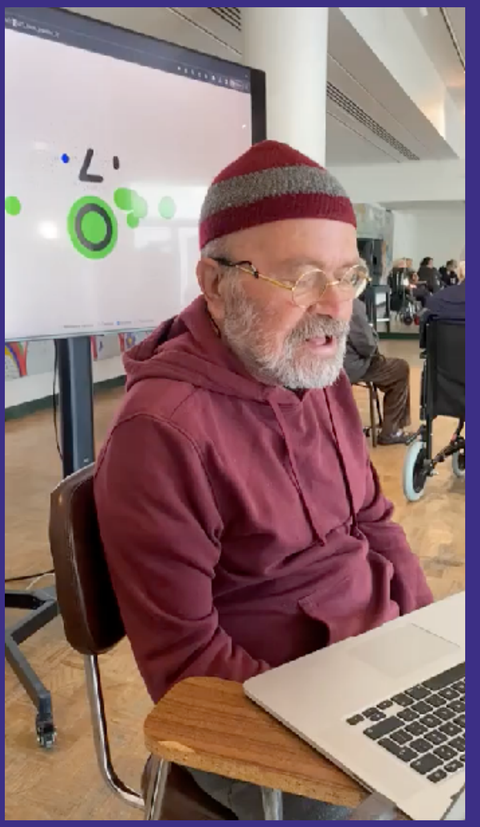
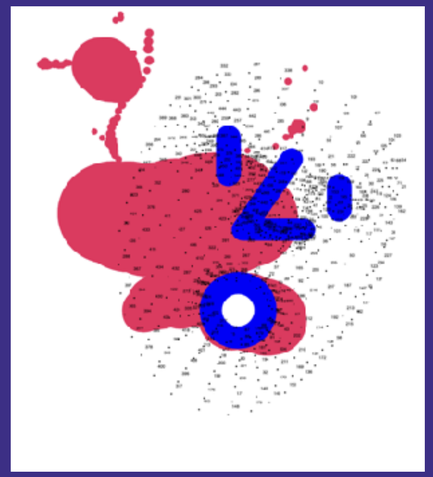
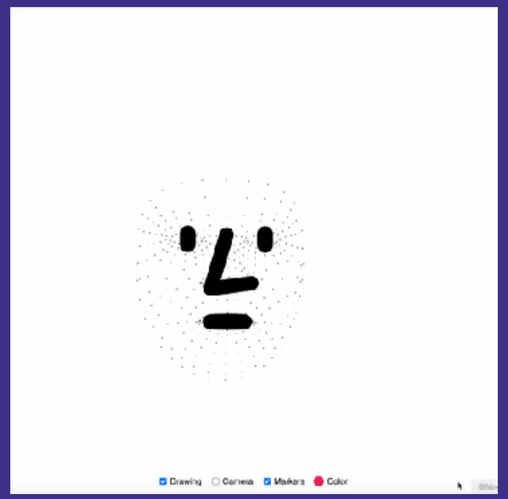
Face Painter

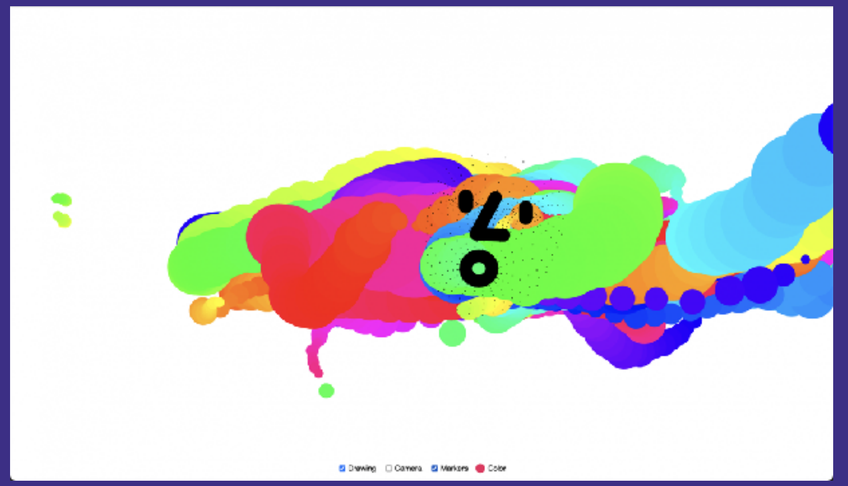
(with Rudolfo Quintas)







https://nahuelgerth.de/tools/face-painter/



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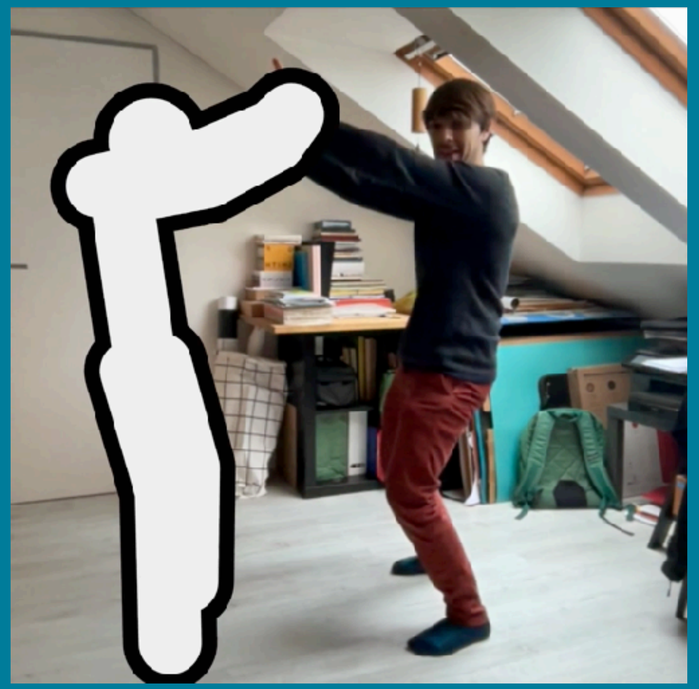

Dancing Team

(with Braidon Hobzek and Zofia Karpowicz)

https://nahuelgerth.de/tools/dancing-team/
https://nahuelgerth.de/tools/digital-twin/

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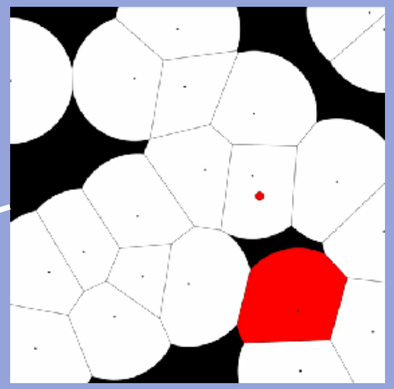

Voronoi Hulk

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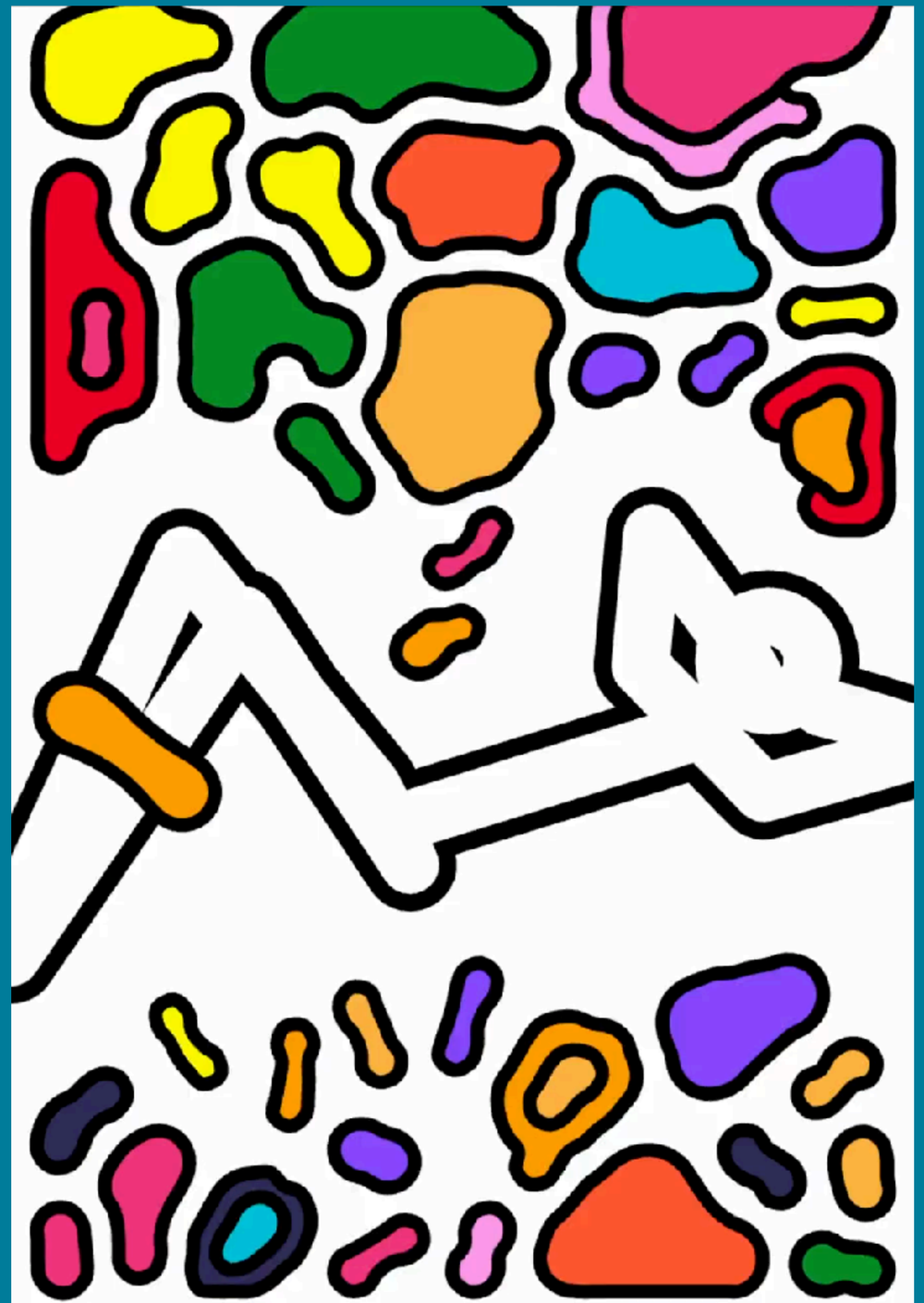
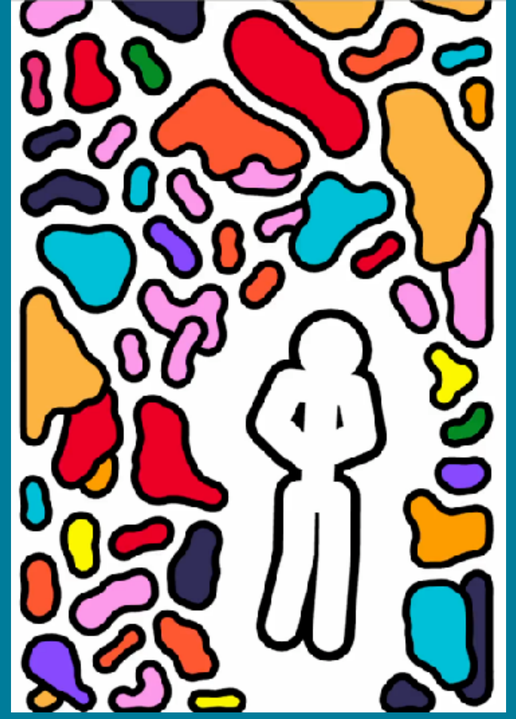
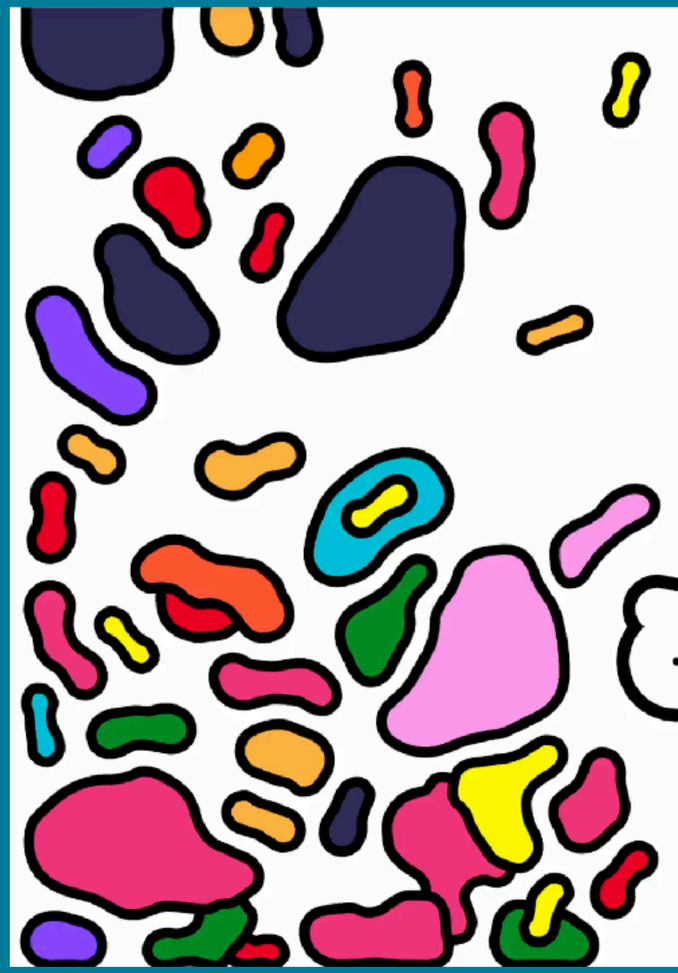




Soft Bodies

(for Hello Fluo)



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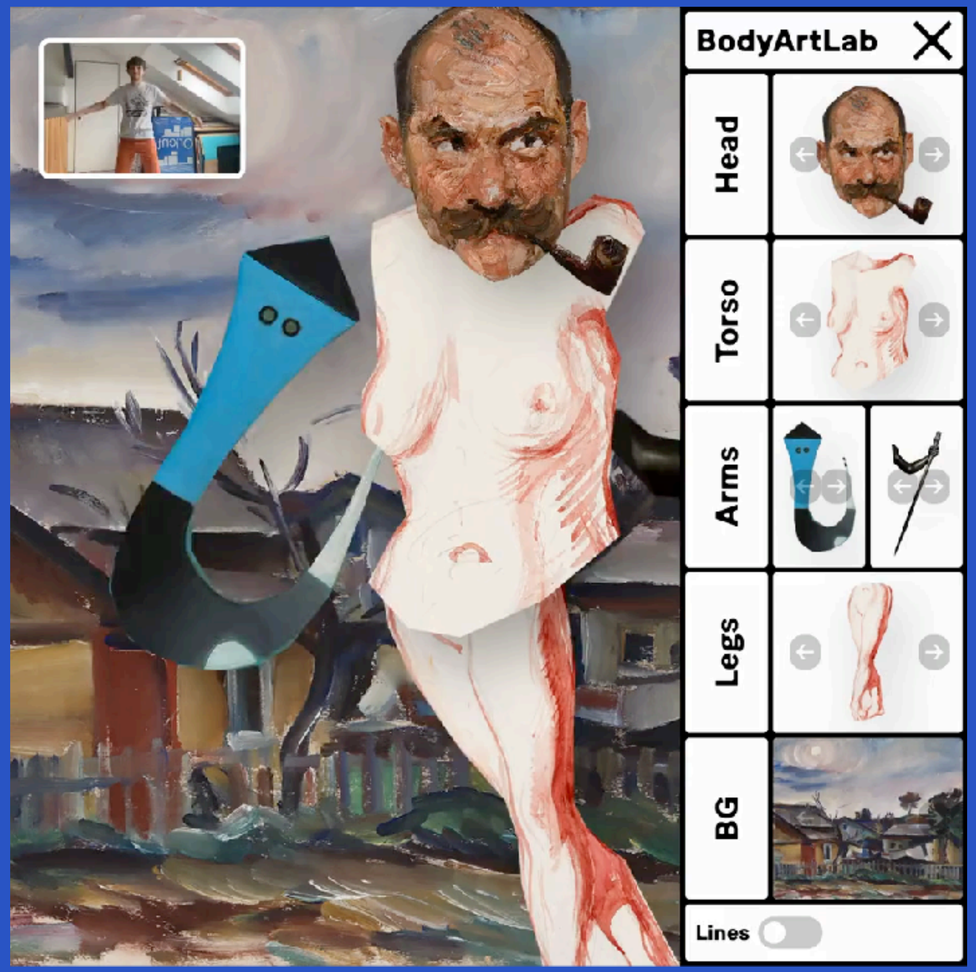
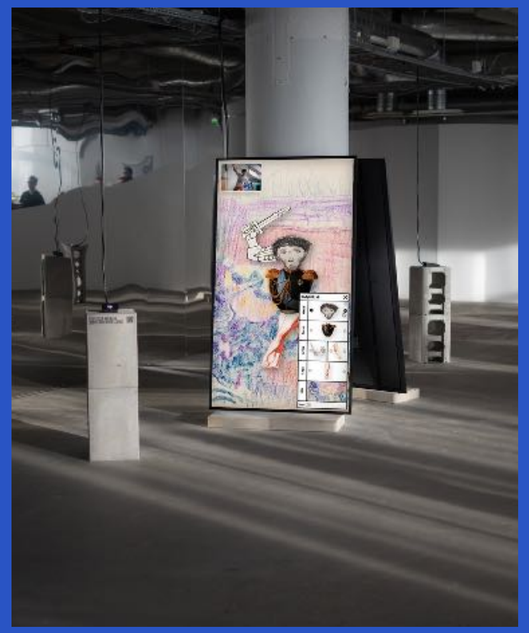
BodyArtLab



Finnish National Gallery



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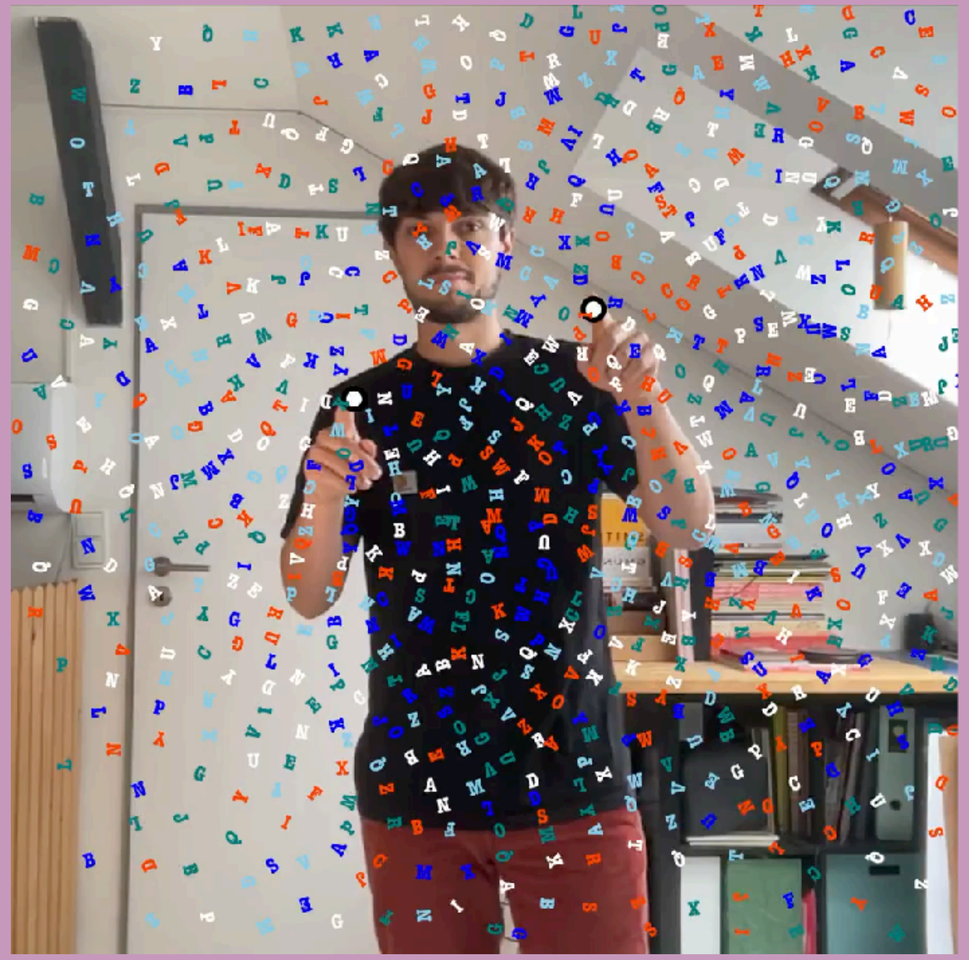

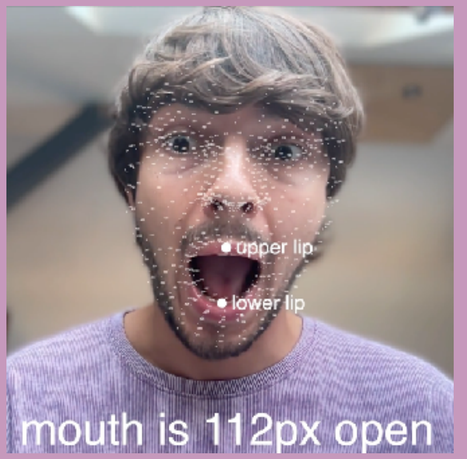

Type Magnet

(with Superiortype)

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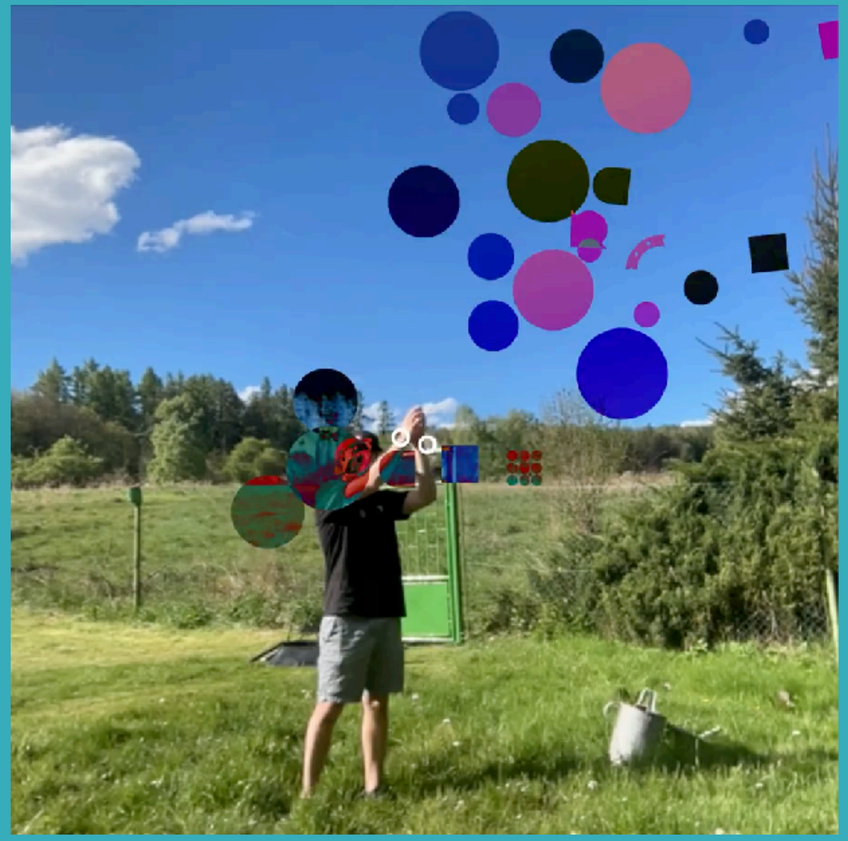

Bubbles

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Inscript Festival

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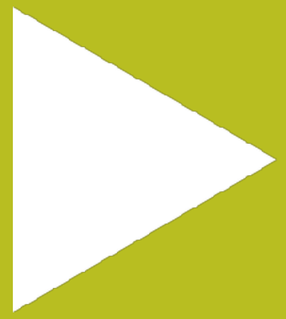

code as transformative force

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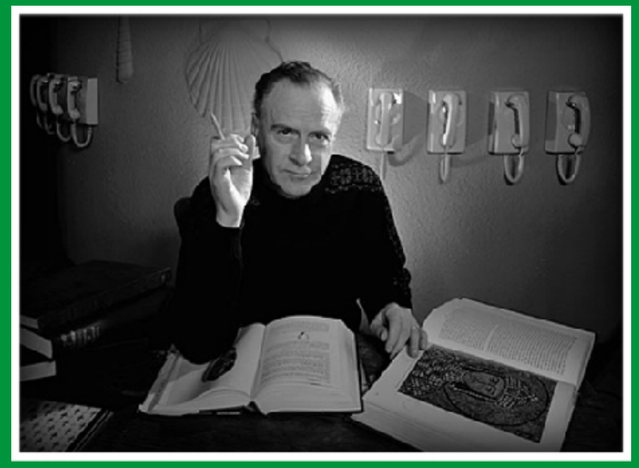
We shape our tools, and thereafter our tools shape us.

Marshall McLuhan



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→ explore new frontiers through the lens of creative coding

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→ dream up new forms of coexistence between society and technology

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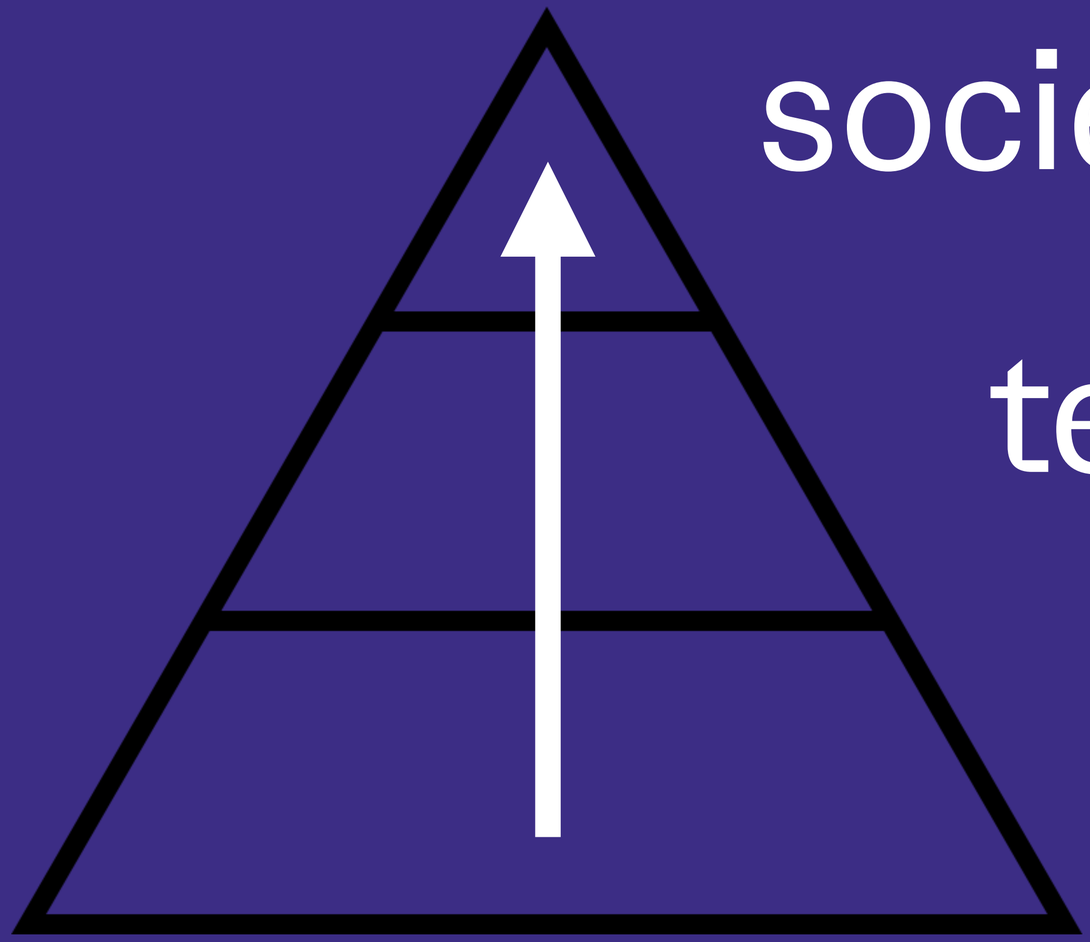

society

tech

code

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Code is a universal machine language.

We as creatives can exploit it to dream up new realities.

We can use it as a transformative force.

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Special thanks!

Katja Rempel
IG @katjarempel

Alistair McClymont
IG @alistairmcclymont

Julian Prieß
julianpriess.de

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Thank you :-)

IG @nahuel.gerth
GitHub/nahuelGerthVK

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