

Mairinger Maximilian

Design Portfolio 2026

Hello 🙋

I come from a world of logic and algorithms. But code without narrative is just syntax. I build my own tools, from frontend frameworks to painting robots - to explore the intersection of rigorous systems and human emotion.



CV: <https://maximilian.mairinger.com>

Get in touch

maximilian.mairinger@gmx.at

Generative Physical Art

Acrylic brush Plotter



Generative Physical Art

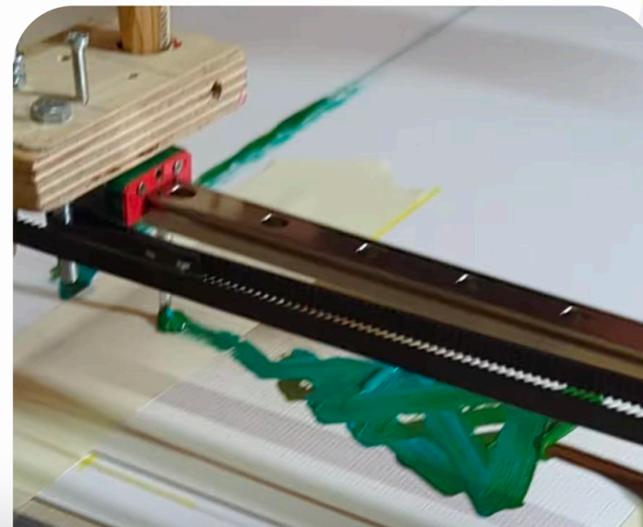
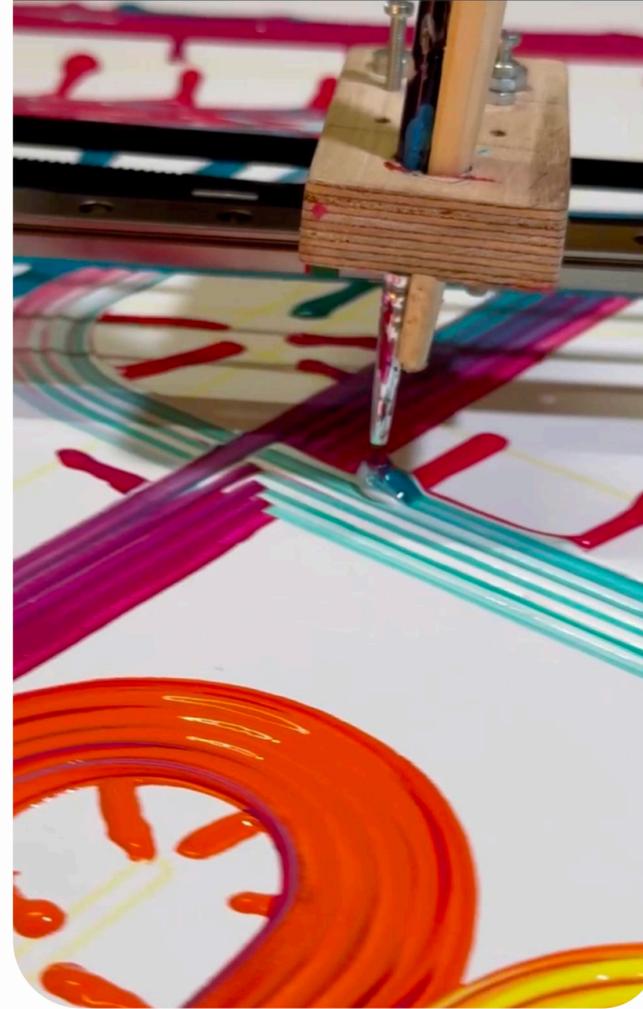
Acrylic brush Plotter

Algorithms are precise. **Reality is not.**

I engineered a custom CNC machine to translate digital vector paths into physical acrylic paintings. While the code is perfect, physics is not. Each painting is a study in fluid dynamics, friction, and calibration.

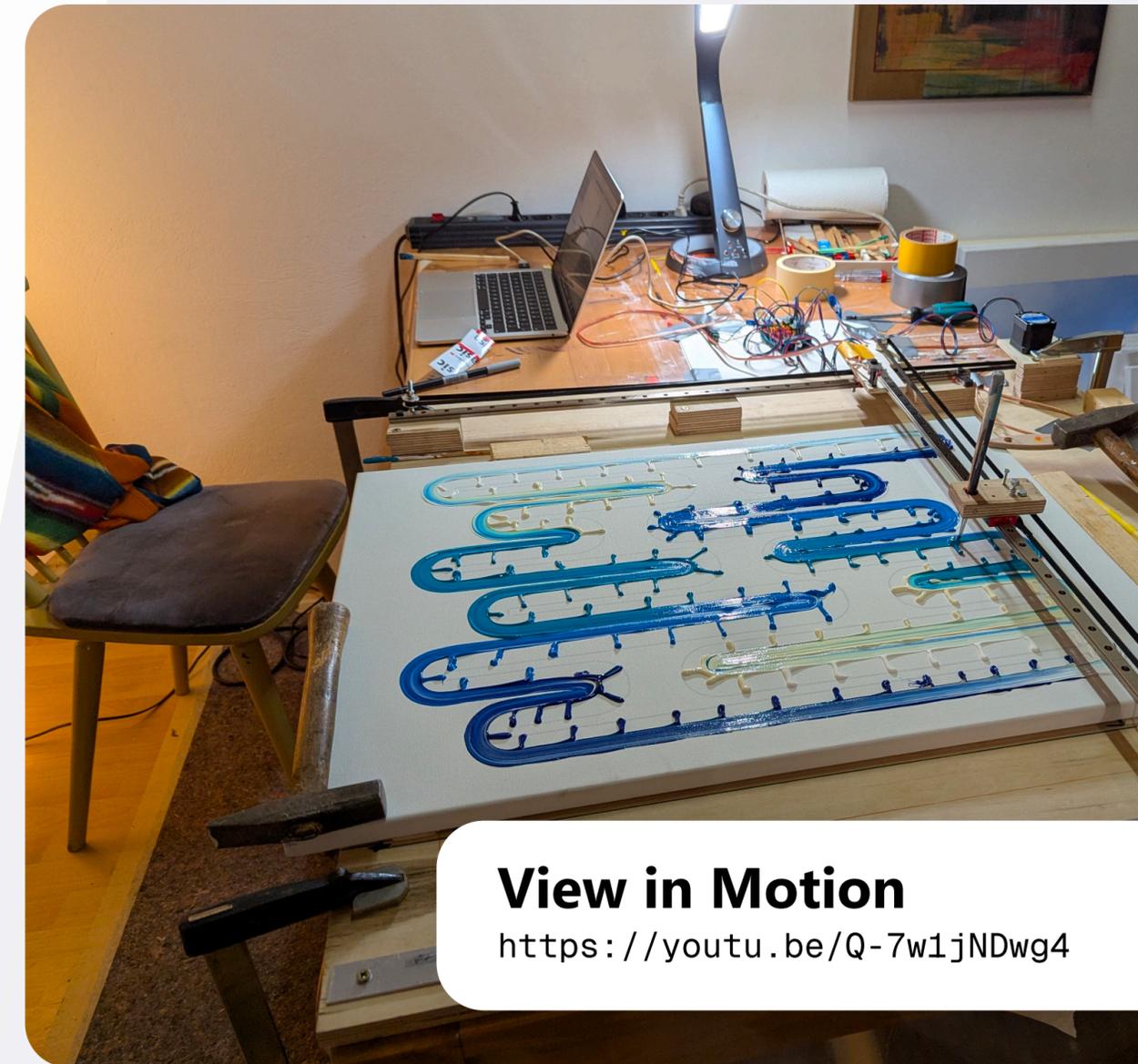
Scope:

- Mechanical Engineering & Assembly
- Electrical Wiring & Embedded Systems
- Custom Compiler (Pathing -> G-Code)
- Path Design & Color Mixing



View in Motion

https://youtu.be/g1PqMMVw_3Q



View in Motion

<https://youtu.be/Q-7w1jNDwg4>

```
center_dir = prev_dir-90
if center_dir < 0: center_dir = 360+center_dir

d_center = (NLINES - 0.5)*DLINES

rv_x = d_center * math.cos(math.radians(center_dir))
rv_y = d_center * math.sin(math.radians(center_dir))

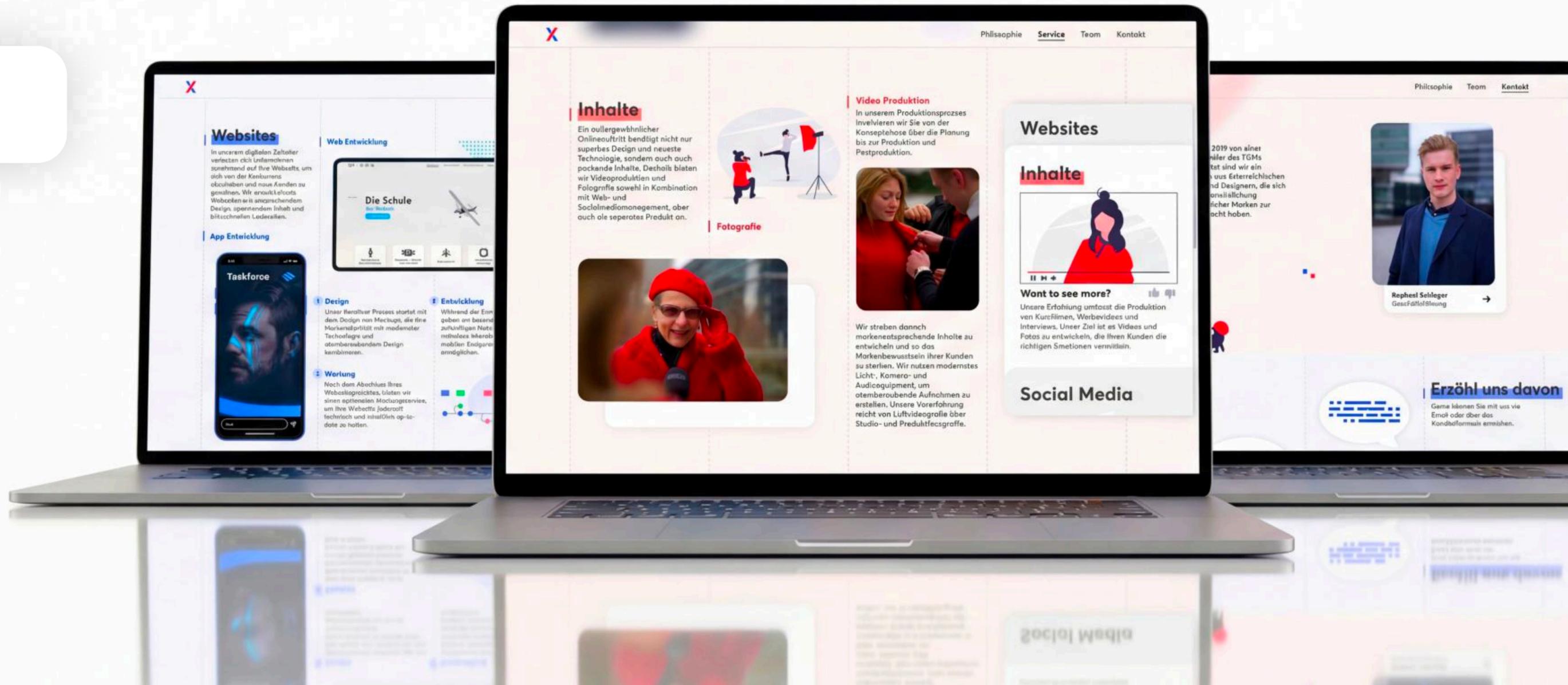
rotation_center_x = prev_x + rv_x
rotation_center_y = prev_y + rv_y

rot = np.dot(rotation_matrix("right", cmdArgs), [-rv_x, -rv_y])
```

Digital design

Web design & development

View live
xcenic.com

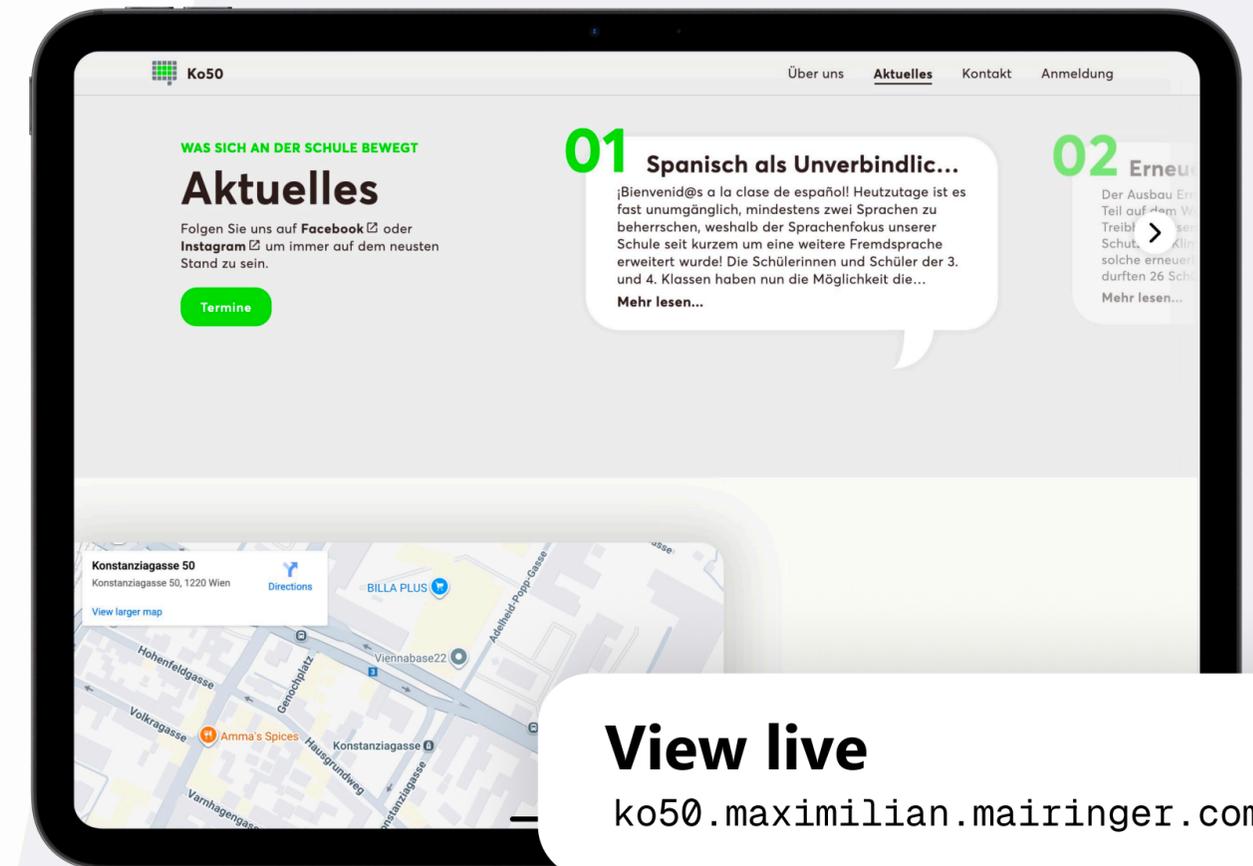
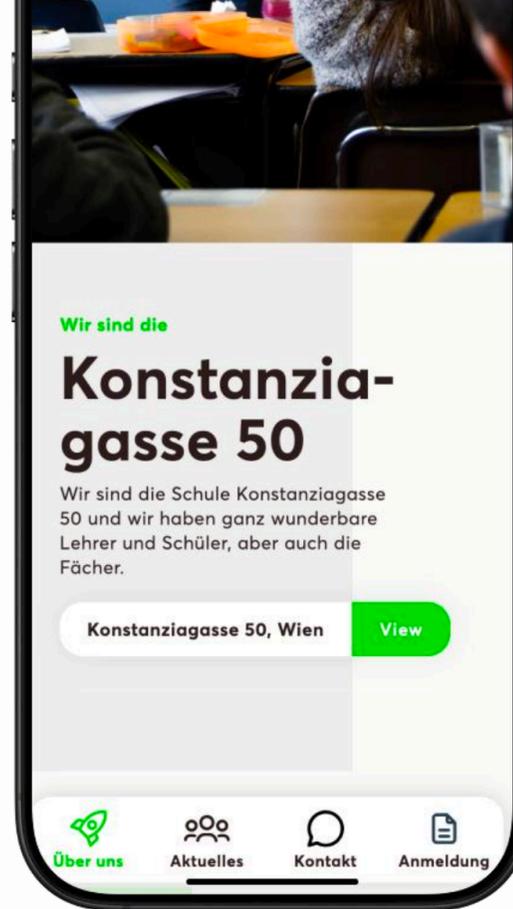


2019-2026

Digital design

Custom Web Architecture

Why use a framework when you can build your own? Instead of relying on React, I developed a custom SPA framework to ensure 100% control over state management and DOM manipulation, including an animation engine, explored on the next slide.



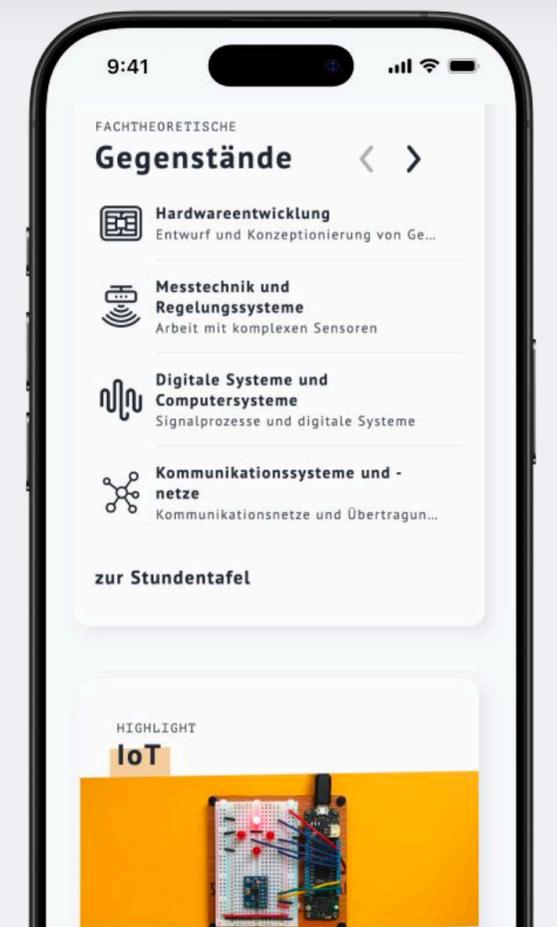
View live

ko50.maximilian.mairinger.com



View live

dev.tgm.maximilian.mairinger.com



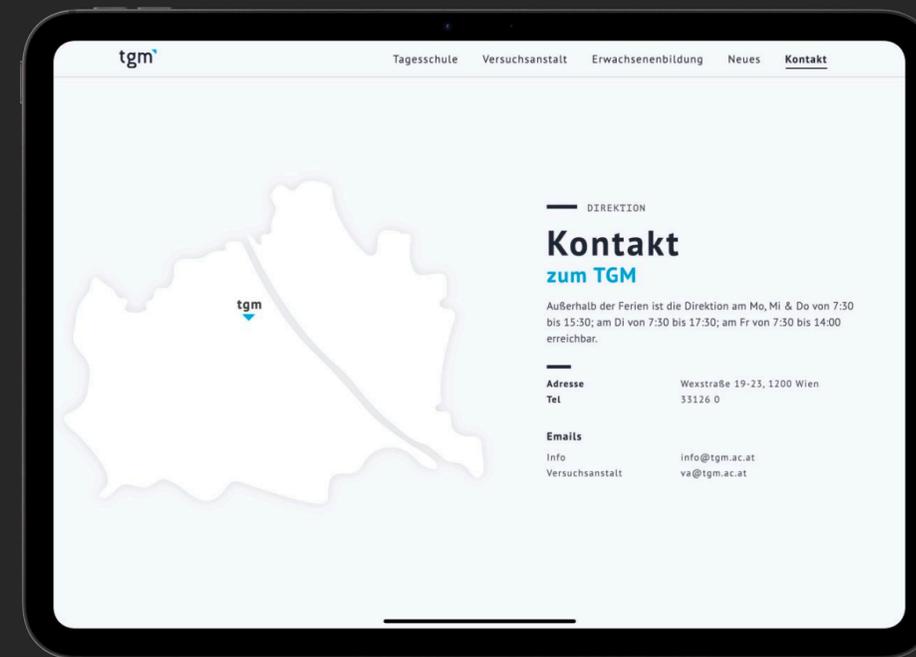
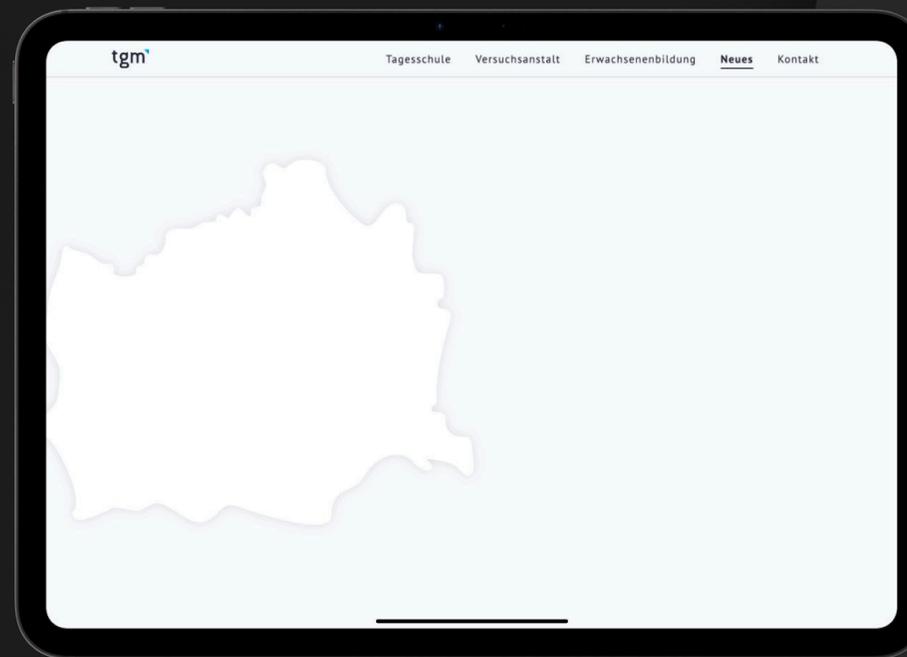
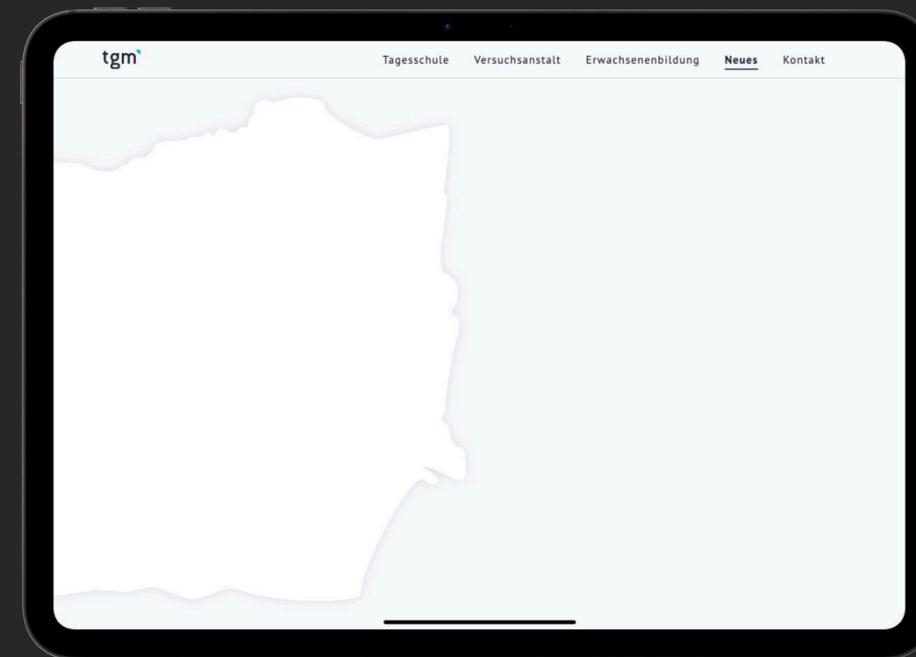
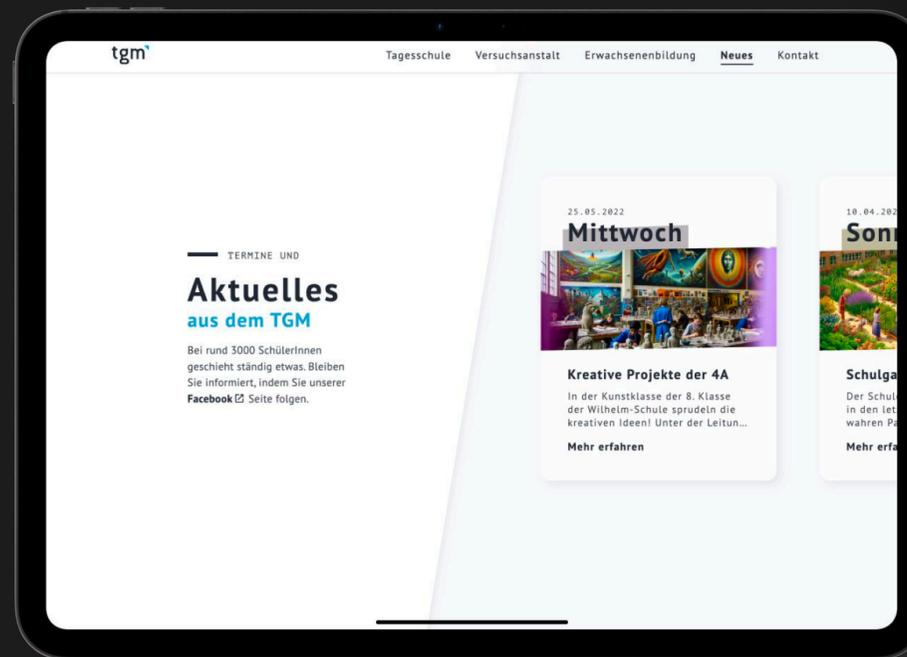
Digital design

Animation Design

A custom-coded rendering engine enabling seamless morphing between vector states. No third party libraries. Just math and the DOM.

View live (scroll down)

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AI-Augmented Branding

Brand identity creation

2023

ForJu
Verein der Forschenden Jugend

Hard- und Softskill-Seminare für Schulen

ALL IN ONE
Alle Workshops aus einer Hand? Wir machens möglich!

INDIVIDUELL
Inhalte auf individuelle Bedürfnisse abgestimmt

WISSENSCHAFTLICH
Wissenschaftlich fundierte Seminarinhalte

DIVERS
Diversität bei den Inhalten und im top ausgebildeten Trainer-Innenpool

scope@forju.de/forju-shop

AI-Augmented Branding

Brand identity creation

Creating a cohesive identity on a volunteer budget. Traditional photography was too expensive for a non-profit scope. I chose AI as a solution: Utilising a LoRA, built upon Stable Diffusion, I generated a consistent "Origami" visual language that scales across all media.



2023

View live
forju.at



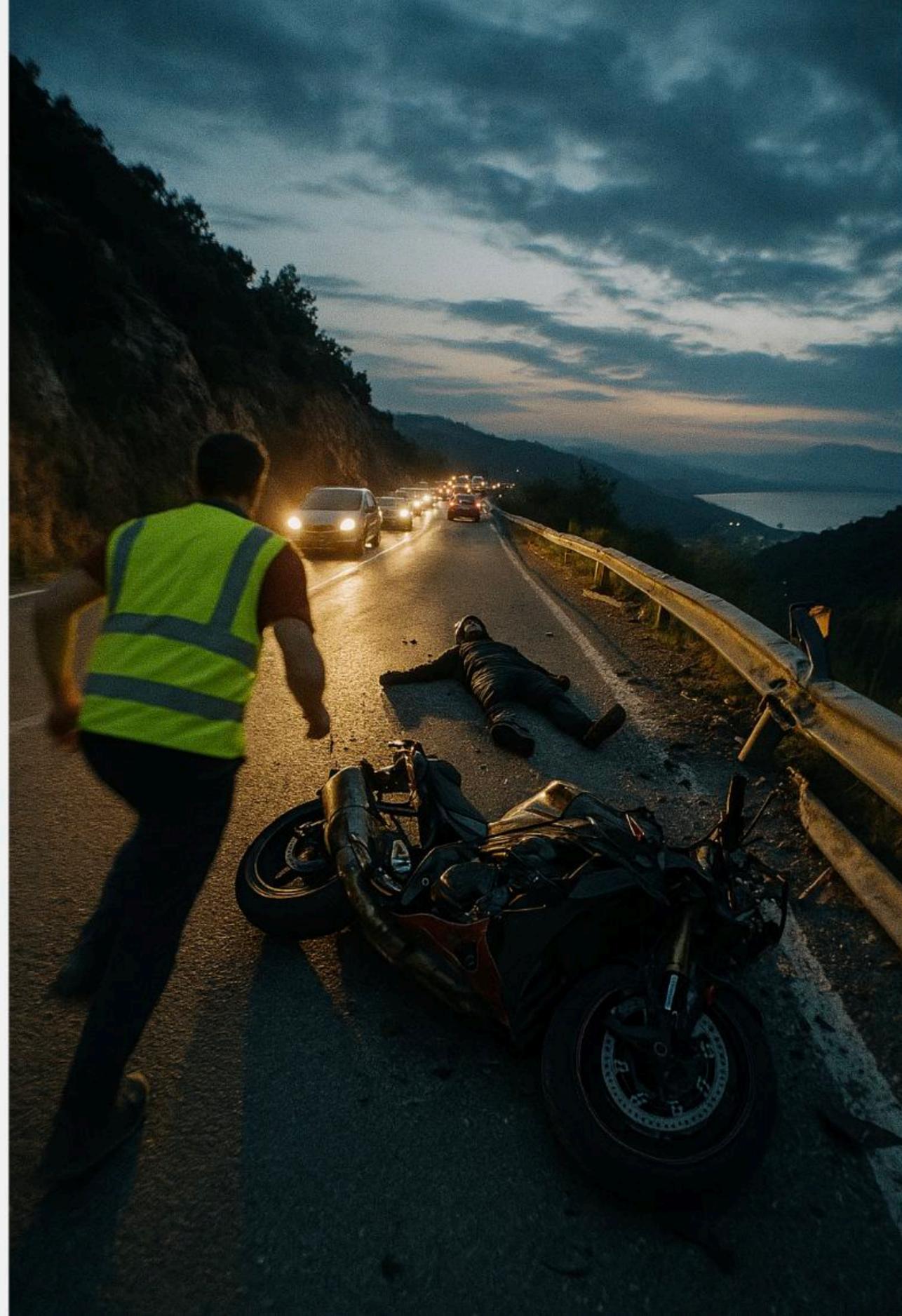
Visual Narrative

Filmmaking

This wasn't a big budget client commission, it was a passion project. Founded with school friends, our small creative collective "Xcenic" needed a face. We taught ourselves lighting, grading, and direction to create a cinematic brand video that felt bigger than we actually were. My responsibility was direction and camera.

Play now

xcenic.com/video



Emergency Teaching

In emergency training, engagement is key for retention. I replaced text heavy guidelines with character-driven visuals. By anchoring complex medical algorithms to visual cues, the information is easier to recall when stress levels spike.

[View all](#)

docs.google.com



Verkehrsunfall

View all

docs.google.com

/04



Was / Symptome / Erste Hilfe

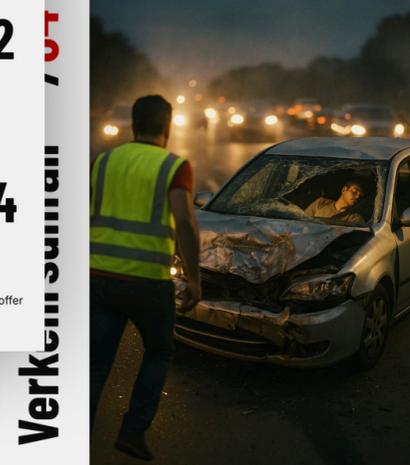
Herzinfarkt

Verkehrsunfall /04



Beachte

Auf die eigene Sicherheit achten!
Person aus der Gefahrensituation retten
Beim Aussteigen aus dem PKW: Verbandskoffer mitnehmen

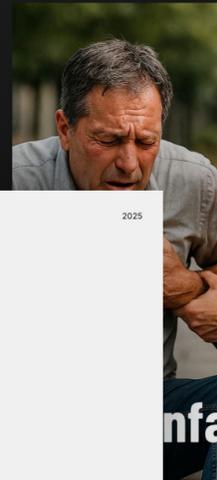


Autounfall

Mit dem **Rautegriff** aus dem Auto retten.
Dann Notfallcheck
Stoppe die katastrophale Blutung! Wärmehalt

Beachte

Auf die eigene Sicherheit achten!
Person aus der Gefahrensituation retten
Beim Aussteigen aus dem PKW: Verbandskoffer mitnehmen



Erste Hilfe

- **Leitsymptom:**
 - Brustschmerzen - ausstrahlend
 - plötzlich beginnend
- **Zusätzlich**
 - Atemnot
 - Angst
 - Kreislaufbelastung
- **Vorbote:** Angina pectoris

nfarkt



Herzinfarkt



Was / Symptome / Erste Hilfe



Herzinfarkt



Symptome / Erste Hilfe

Verkehrsunfall



Beachte

Auf die eigene Sicherheit achten!
Person aus der Gefahrensituation retten
Beim Aussteigen aus dem PKW: Verbandskoffer mitnehmen

</end-of-portfolio>

Maximilian Mairinger

In the age of AI, design becomes selection. Filtering signal from noise. Combining generative efficiency with human art direction to ensure brand consistency.

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