Nicolas Mimault

Interaction designer

1/1/1

Selected works 2023

YOU ARE ABOUT TO SEE

My journey	6
IMMERSIVE DESIGN:	
Artificial Resilience Program	10
Archipel	12
Metaglitch	14
STAGE DESIGN:	
Light show: Coucool festival	18
Led design: Parallele events	22
Video mapping: Nayda @petit bain	26
IXD EXPERIMENTS:	
Prototype: iSpinning top	31
IOT: ZENS	33
WEB DESIGN:	
Website: Parallele	37

©Nicolas Mimault 2023 - nicolasmimault.com

ABOUT ME

Hi!
My name is Nicolas Mimault,
I'm a 27 year old
french interaction designer.



MY APPROACH

My creative process focuses on user experience:

I like to use my skills to contribute to spreading
art culture. I am an interaction designer yet I have
skills in creative project management, digital
interfaces, coding and media arts.

MY JOURNEY

Webdesign: Graphic designer: UX & UI designer: Interaction designer: Creative project manager: Creative technologist: IxD: OtheatrO.com Ové label Freelance **Upton Leaders** Dada meet digital **Owill Messenger** Brig.ht A 2 month internship A 4 month internship A 6 month internship A 5 month internship A 2 month internship A 6 month internship Full-time [Paris 2014] [Paris 2015] [Paris 2016] [London 2018] [Paris 2019] [Paris 2020] [Paris 2020] **EXPERIENCES** EEMI. Strate. Sciences Po. European School of Internet School of design Innovation management master Digital transformation (ITN) Multimedia design 3rd year Interaction design [Paris 2018] [Paris 2014] [Paris 2017] **EDUCATION** Interactive Multimédia creation Media arts Graphic design Prototyping UX 3D prototyping: Innovation design installations Adobe Creative Suite 3ds Max, Blender, C4D Invision, Adobe Xd Ergonomics Creative technology Immersive design Web and mobile interfaces UI design Immersive design CMS and frameworks Video editing Unreal Engine 5 Sociology Front-end development Sketch Premiere Pro Wordpress Video mapping UX design Datavizualisation Bootstrap Internet of things & Led design Motion design Machine learning Arduino Madmapper Cognitive neurosciences Interaction design **MY SKILLS** Systems complexity

[6] ©Nicolas Mimault 2023 - nicolasmimault.com

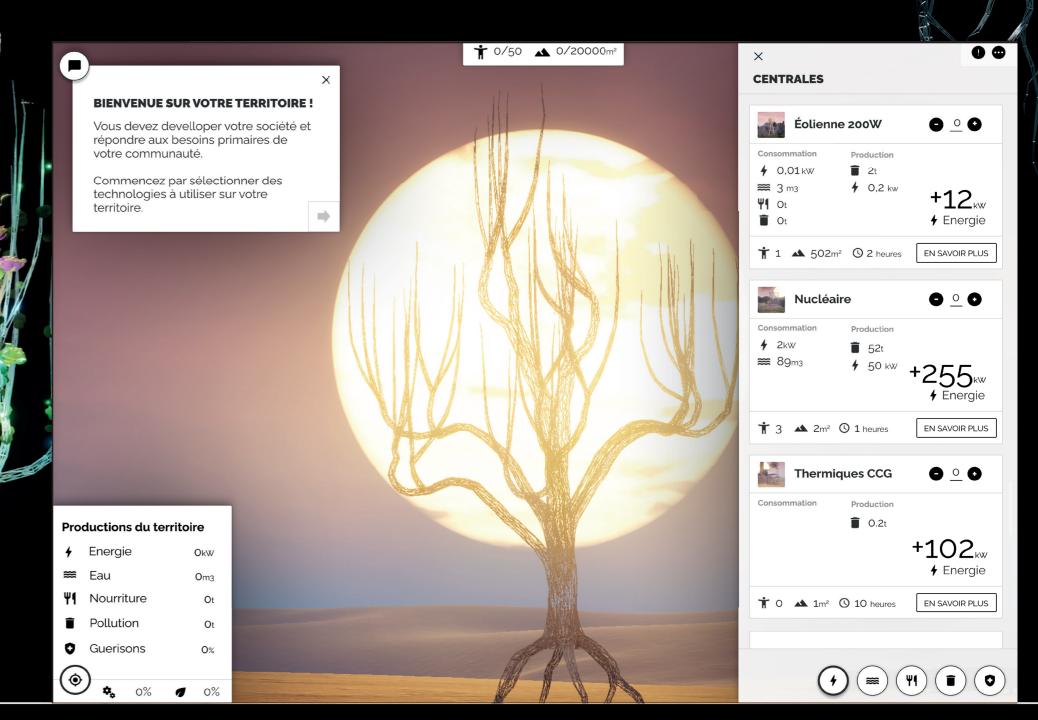
IMMERSIVE DESIGN

#GameDesign
#VirtualProduction

#SpeculativeDesign #PFE2021 #UnrealEngine4

ARTIFICIAL RESILIENCE

In order to imagine the ecosystems of tomorrow and to raise awareness of territorial ecology, the video game Artificial Resilience offers an educational experience. Faced with scenarios of collapse, you play as an AI that must find the techno-ecological combination to shape a resilient and environmentally friendly humanity. From low-tech to green tech, explore ecological imaginaries, experiment a possible future and design your utopia.



colas Mimault ©Nicolas Mimault 2022 - nicolasmimault.

ARCHIPEL

OYÉ LABEL

Co-created with Paul Vivien from Oyé Label

Archipel is an **experimental video game** where players explore virtual islands. Each island obeys its own rules and allows players to dis-covers new emotions and possibilities in a poetic way.

This project is born from the first lock-down. We focused on exploration and immersive experiences to let the players travel again, yet, in virtual worlds that we imagine to be as mystic as uniques.

This video game was exhibited for the first time in June 2021 at the digital art exhibition Atmosphere by 36degres.











[12] ©Nicolas Mimault 2023 - nicolasmimault.com

©Nicolas Mimault 2023 - nicolasmimault.com

#VirtualStudio #Datavisualisation #UnrealEngine5

DIFRAKT

VIRTUAL PRODUCTION 2022

Metaglitch is a virtual studio for real-time 3D capture based on Unreal Engine 5. It allows media artists to capture interactive 3D scenes reacting to evolving third party data. The program create 3D previews with real time rendering, potentially audioreactive.

The user controls virtual lights of his scene with the DMX protocol. Moreover, in this virtual studio you can transform your scene (materials, scale, rotation etc.), change viewpoints, move cameras and adjust your post-process using a midi interface.

DMX controled 3D scene Soundreactive 3D visuals

(i) watch more at nicolasmimault.com/difrakt-studio

[14]

STAGE DESIGN

#LightShow #VideoMapping

[16] ©Nicolas Mimault 2023 - nicolasmimault.com

LIGHT SHOW

COUCOOL FESTIVAL SINCE 2021

Co-created with Ascidiacea

I designed the main stages for the Coucool festival for two years now. The design was mainly made with a **modular structures** and **matrixed leds**. Our first design aimed to play with light colors and the subtractive synthesis that gives its color to the tubes.

We wanted to immerse the spectators in this colorful world by surrounding them with these structures.

Credit photo Coucool Festival 2021: Oli Bozom









[18] ©Nicolas Mimault 2023 - nicolasmimault.com



LED DESIGN

SINCE 2019

Scenography co-created with Jules Perriot, Elie Oriol, Michael Sedbon

All begun with a series of events by Parallele in February and March 2019, we created a modular scene system with gabions and LEDs. We have realized all the connections and we have developed a software thanks to the VVVV toolkit to control the LEDs. An interactive 3D model allowed us to visualize our scene live and multiple options allow us to manage colors, animations, potentially sound-reactive. Since then I had the occasion to specialize myself in led integration and work on several stages including Initial festival in Bordeaux 2022.



©Nicolas Mimault 2023 - nicolasmimault.com



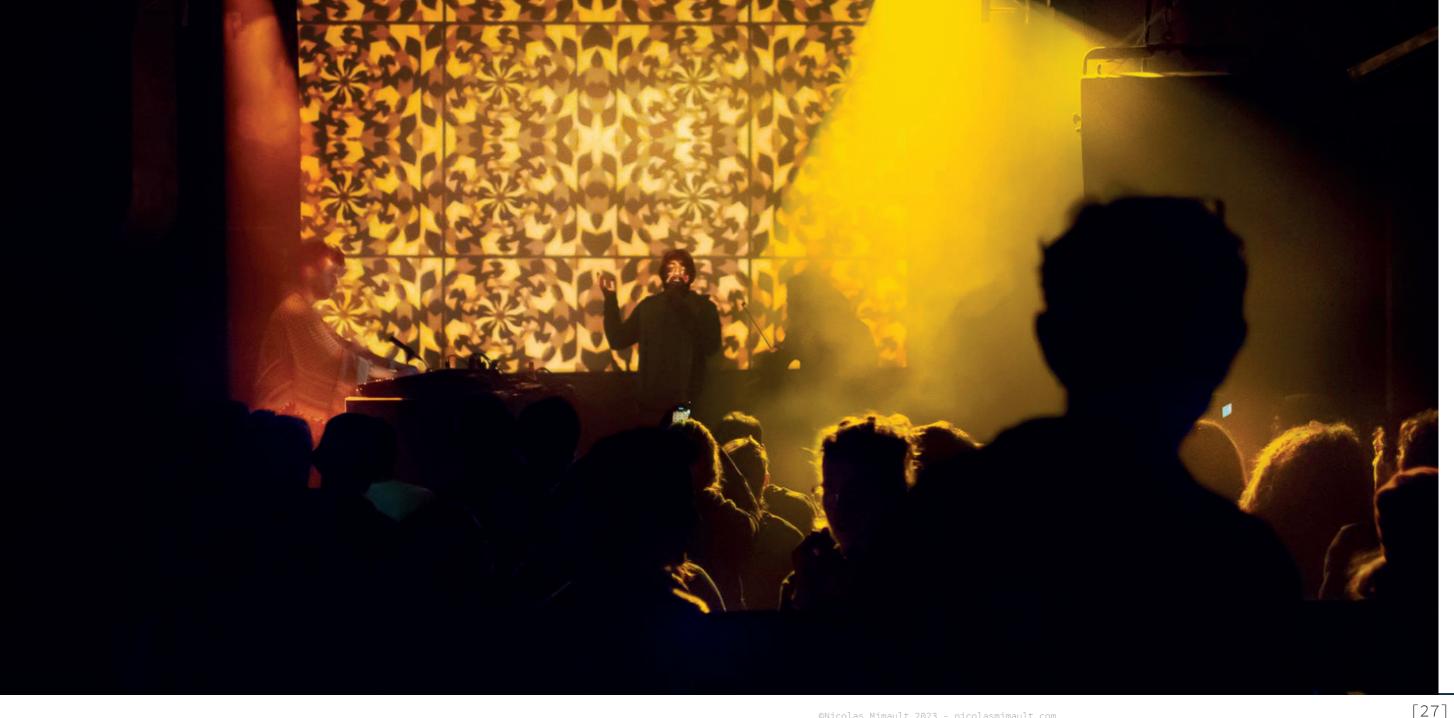
VIDEO MAPPING

SINCE 2017

I had the opportunity to make video projections mix during several events. I did some mapping and Vjing with Resolume Arena which awakened my interest in the scenery.

I did the projection of the middle-eastern group Shkoon at the Petit Bain in june 2017. Their live show is available on Youtube and currently cumulates 480000 views.

Credit photo: Thémis Belkhadra



IXD EXPERIMENTS

#InteractionDesign
#EducationalProjects
#ResearchLab

[28] ©Nicolas Mimault 2023 - nicolasmimault.com

#Arduino #3DInteraction #TangibleInterface

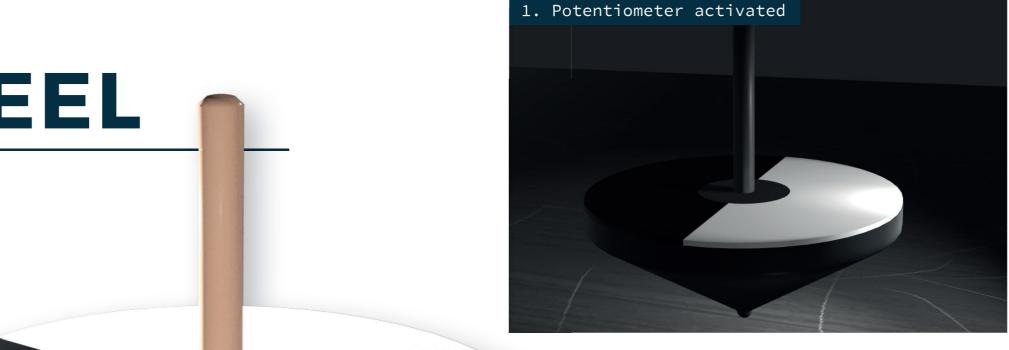
ISPINING WHEEL

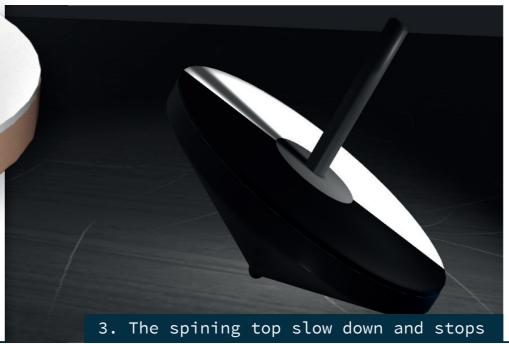
3D REAL TIME PROTOTYPE 2019

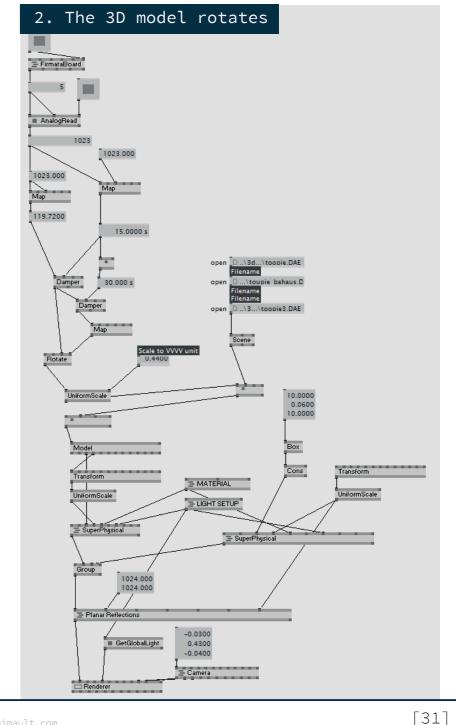
[DIGITAL COLOR MIXER]

The iSpining Wheel is a project made with the VVVV open-source toolkit. It connect an **Arduino** microcontroller to a **3D model** to create an interactive **3D prototypes** with tangible controls.

I was inspired for this project by Ludwig Hirschfeld-Mack's **Bauhaus** spinning tops, which represents his study of color relation with frame light and movement. My project allows **studying the mixing of colors in a computer environment**. This digital color mixer, therefore, varies according to the computer ressources and the 3D renderer.







o watch video @nicomimault

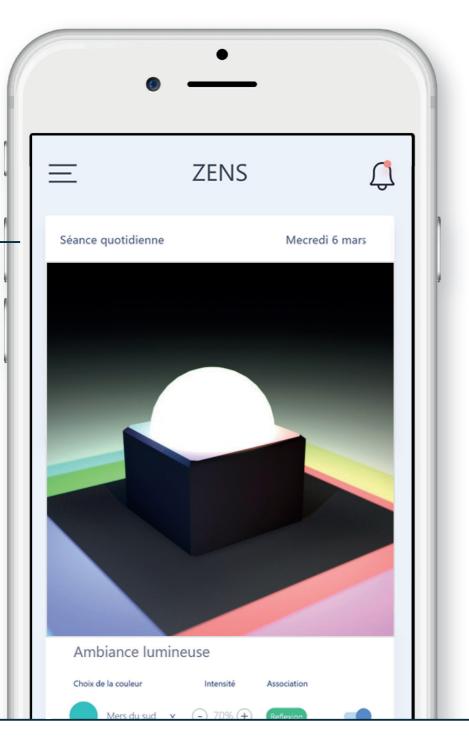
#AI #Neurosciences

ZENS

INTERNET OF EEG 2019

Co-created with Jules Saur, Valentin Leblanc, William Borgomano

Zensisan IOT concept developed in sciences
Po which aims to accompany meditation
at home. The users are equipped with an
EEG (electroencephalogram) headset and
benefit from luminous and audio feedback
thanks to a connected box during the
meditation session. The user can then
follow the evolution of his achievements
and keep a sensory trace of his session
thanks to an app.



Tensorflow classification model trained with brain datas

Technical approach

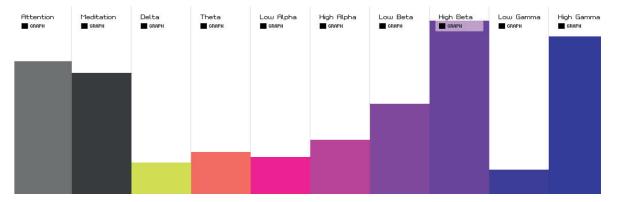
From a technical point of view, the helmet is equipped with electrodes and sends its data to the computer via an Arduino Uno Board. The datas are processed by a classification model trained with TensorFlow. Depending on the data classification, a signal is sent to the Adafruit server which communicates with the microcontroller ESP88 of the box which then emits sensory feedback.

```
data2 = pd.read_csv('test_brain_datas_prediction.csv')
data2 = data2.drop(['connexion'], axis =1)

X2 = np.array(data2)
print(X2.shape)
#print(Y)
```

(26, 10)

```
prediction = model.predict_classes(data2)
prediction_classes = np.argmax(to_categorical(prediction), axis = 1)
prediction_classes = encoder.inverse_transform(prediction_classes)
print('Predicted class: ', prediction_classes)
```



WEB DESIGN

#DigitalCreation

#Front-end developement

#CreativeCoding

[34] ©Nicolas Mimault 2023 - nicolasmimault.com [35]

PARALLELE

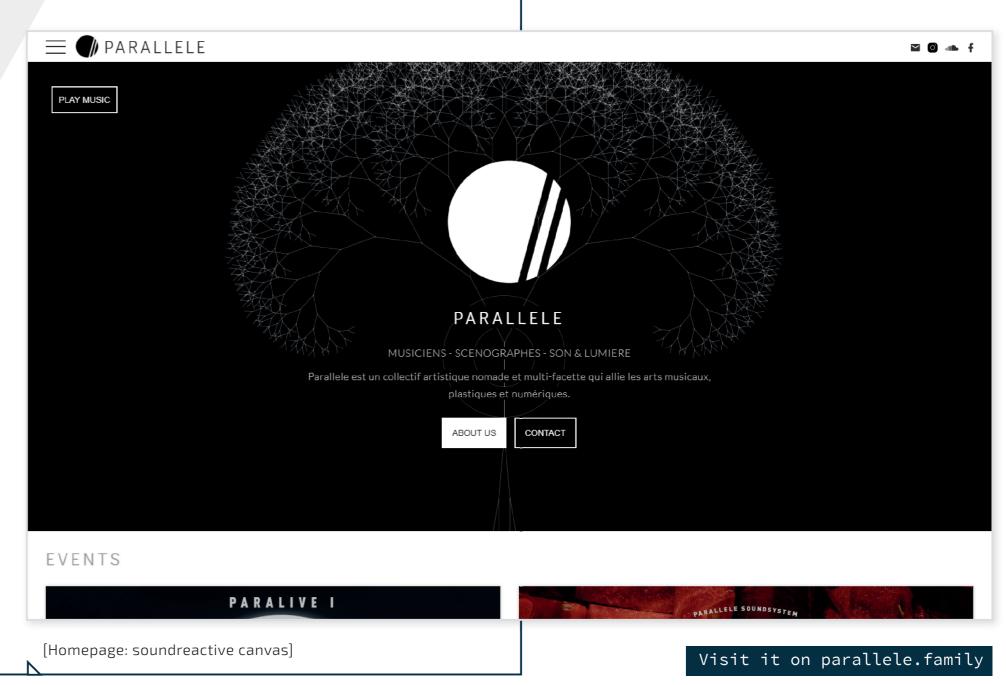
WEB DESIGN 2019

I co-founded Parallele, an association dedicated to organising parties and exhibitions. We also do scenographic installations.

In 2019, I produced the association's communication materials which included a presentation report and the official website. During the front-development of the site, I realized a sound-reactive canvas, thanks to p5.js the Processing language intended for web applications.

I also designed our **logo** at the genesis of the association back in 2015.





more projects on nicolasmimault.com...

LET'S WORK TOGETHER

nmimault@gmail.com
nicolasmimault.com
+336.89.99.02.50

o see more @nicomimault

