<u>Sam Hains</u> Portfolio

ART

- 1. <u>Bullet Heaven (2023)</u>
- 2. <u>Lost Home Worlds (2023)</u>
- 3. <u>Dream (2020)</u>
- 4. <u>Paradise (2020)</u>
- 5. <u>Bang Bang (2020)</u>
- 6. Public Records TV (2020)
- 7. QWERTY SYSTEMS (2019)
- 8. <u>Zero Likes (2017)</u>
- 9. <u>Pluto (C:) (2017)</u>
- 10. <u>NYU ITP Thesis (2019)</u>

COMMERCIAL

- 11. <u>Florist NYC (2019-2021)</u>
- 12. <u>About Face (2020)</u>
- 13. PAPER magazine (2020)
- 14. <u>#DateMe (2019)</u>

Portfolio <u>Sam Hains</u>

"Trained as a software engineer, Sam Hains is a 3D artist whose practice centers around the critical examination of digital tools and their connection to modernity. His work explores the oft-forgotten spaces that have come to define our contemporary era: abandoned netscapes, machine-created mistranslations, and uncanny simulated realities... his work seeks authenticity in an increasingly simulated world.

Though he often employs post-cyberpunk aesthetics that are informed by science fiction, Hains's practice is less about understanding speculative futurity and more about unpacking authenticity in a technologically-mediated world. 3D rendering is a primary tool in Hains's digital workbench, but he also integrates newfangled, popularly lauded techniques and technologies—like artificial intelligence, generative algorithmic processes, and software-enabled data analytics—with a critical eye to their points of breakage. At times seduced by technology, his work seeks realness while constantly wading through artificiality.

Human-machine interfaces play a particularly important role in his practice; and the slippages in between the cracks of biological and artificial interactions shine through in his pointed examinations of the production of sociality and labor in late techno-capitalism. Fantastical virtual landscapes and shiny machine renders belie an, at times, cynical view of the role of the human in a world no longer designed for them.

In the past, his commercial collaborations have included creative work for PAPER Magazine, music videos with live simulation elements for artists like Antiboy and Sean La'Brooy, and live experience visual design for theater productions. His artwork has been featured in the Vice Creators Project, Nowness, Neural Magazine and The Wrong Bienalle."

-Wade Wallerstein for Wild.xyz

<u>Bullet Heaven [YOKO]</u> is an interactive bullet painting, from a series of works inspired by Danmaku ("Bullet Curtain") arcade games characterized by complex patterns of bullets that fill the screen.

This work won the <u>Optimism Grand Prize</u> for Generative art, the largest NFT art prize.

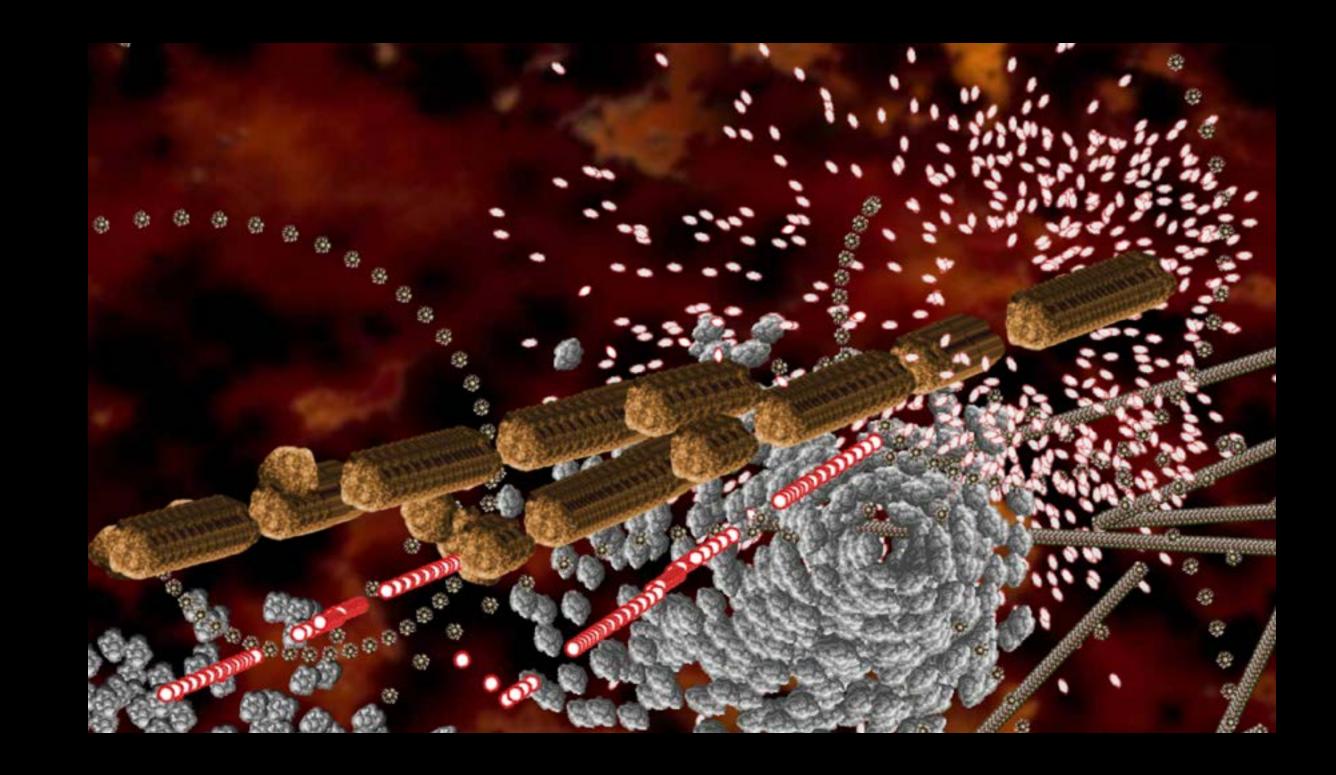
A special Open Edition of this project was released with <u>Galerie Yeche Lange</u> on <u>Highlight.xyz</u> in December 2023. Made in collaboration with <u>Wretched Worm</u> with soundtrack by <u>Manapool</u>.

This project makes use of highly optimized, custom particle emitters built with javascript and GLSL.





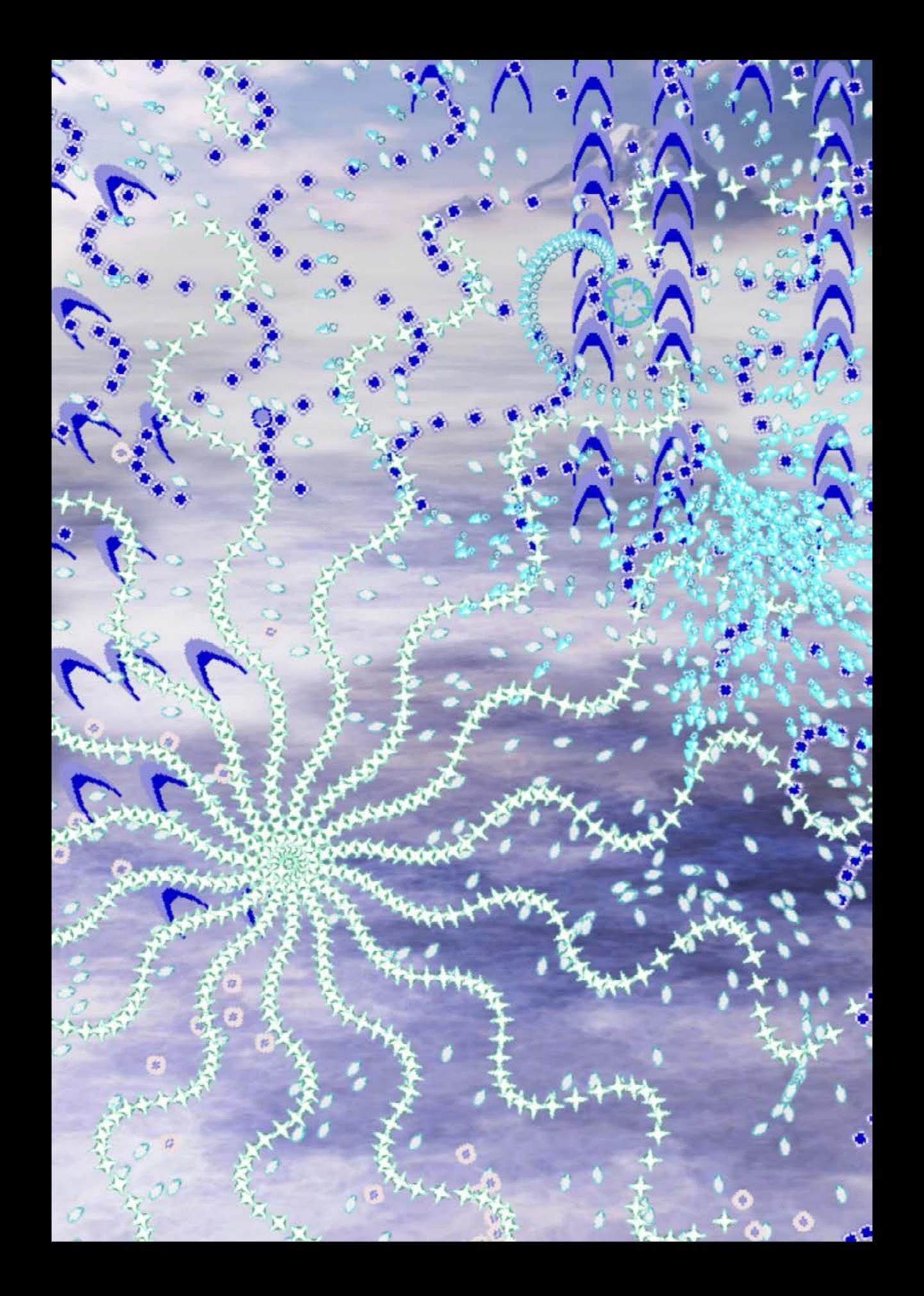
To overcome the extreme difficulty of Danmaku games, the gamer must train extensively, feeding the machine with time and money. The project examines the toxic, psychologically abusive relationship between gamer and game and the transcendental dark flow state one achieves when merging with machine.

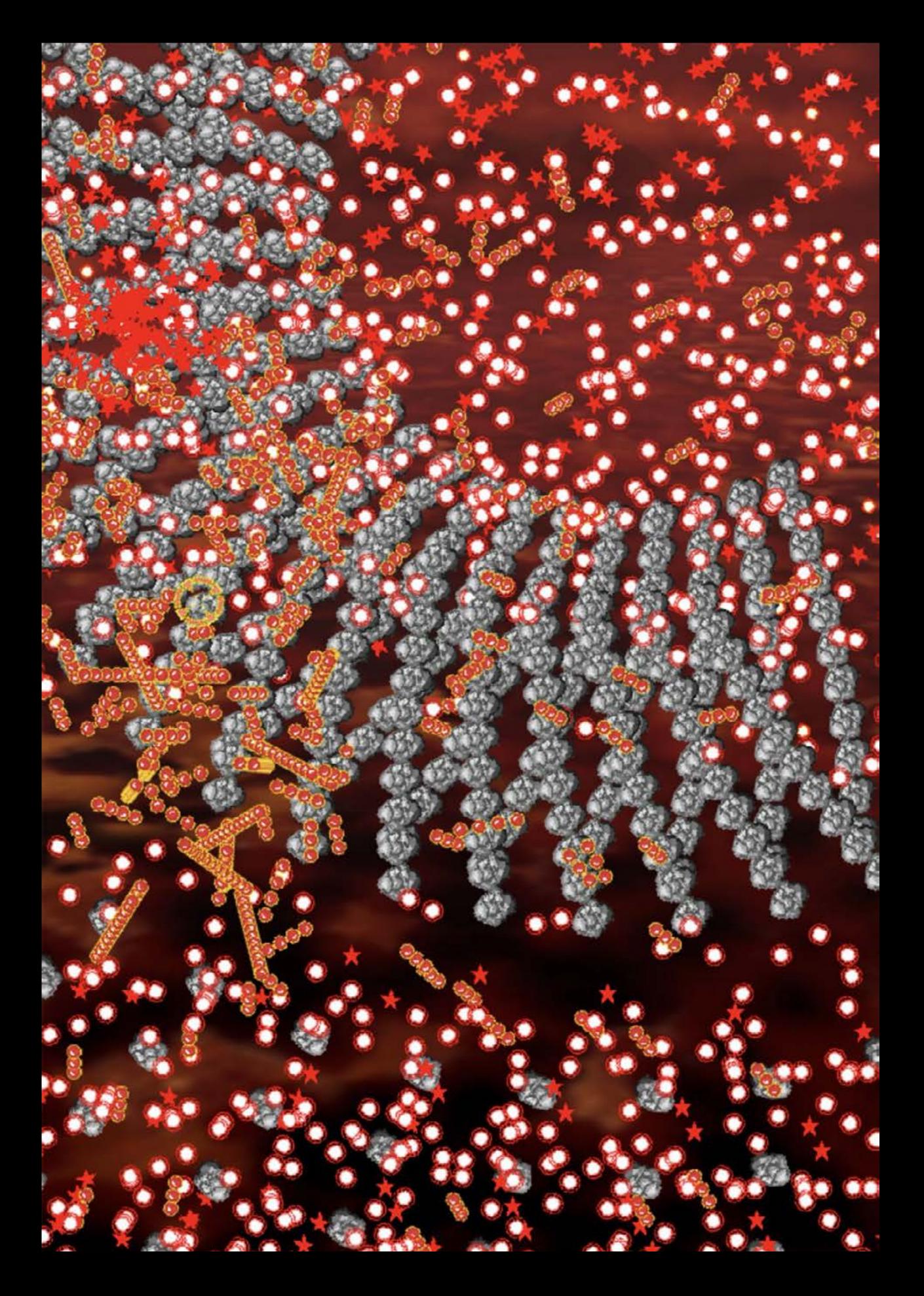


Bullet Heaven

Sam Hains

<u>Sam Hains</u> Bullet Heaven





Bullet Heaven [ULTIMATE] was shown in <u>Double Dealing</u> Character show at <u>Yeche Lange Gallerie</u> in New York which ran from July to September 2024.

Bullet Heaven Sam Hains

Sam Hains Lost Home Worlds









Lost Home Worlds is a collection of 250 generative, interactive NFT artworks which explore ideas around grief and memory. It is inspired by Mike Kelley's "Kandors" (1999-2011), and uses the metaphor of the shrunken city in the bell jar to investigate the idea of memory palaces and their role in trauma processing.

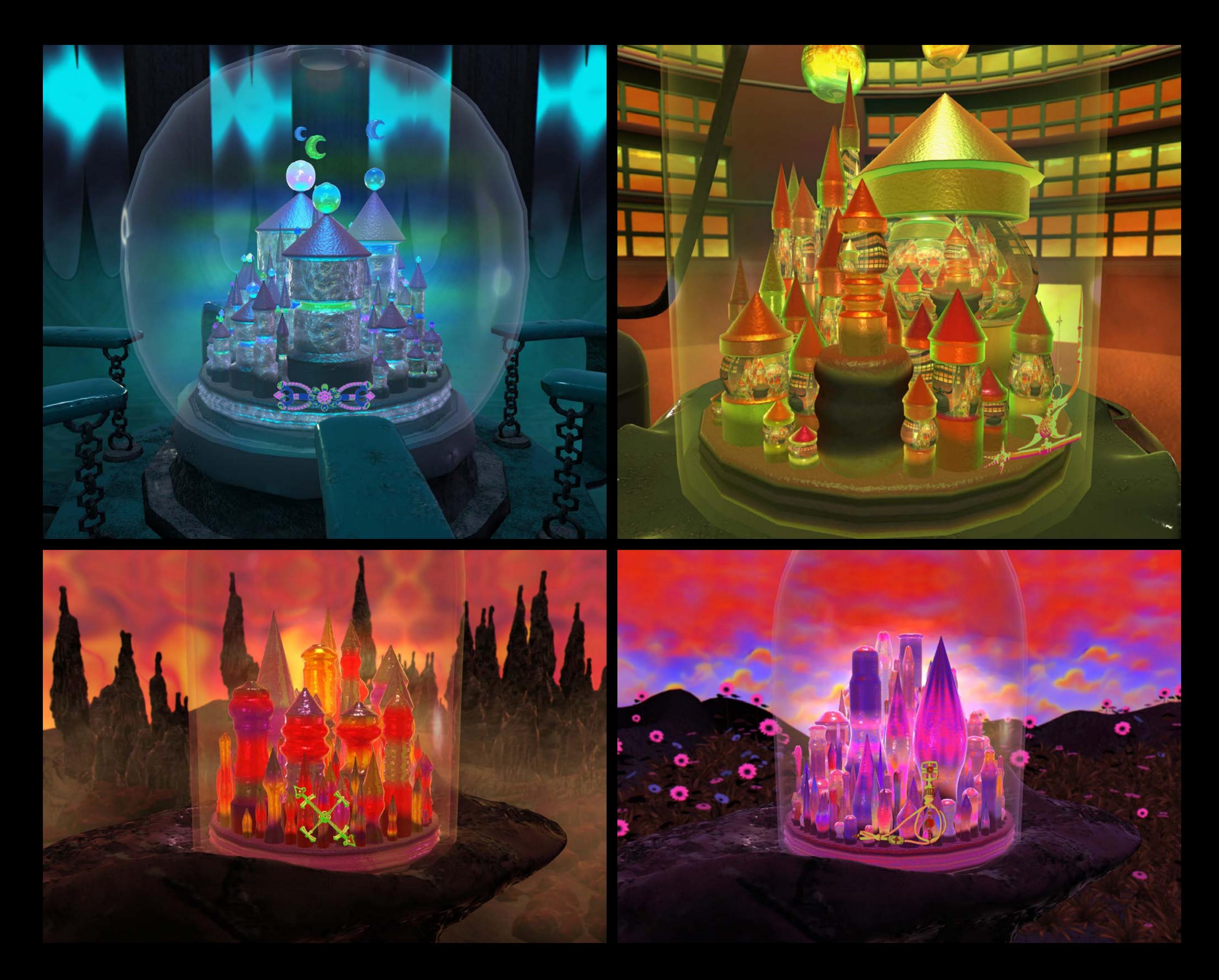
<u>Lost Home Worlds</u> was released on June 13th, 2023 via <u>Wild.xyz</u> and sold-out to collectors in 8 hours.

Javascript, GLSL, WebGL, Three.js, Houdini



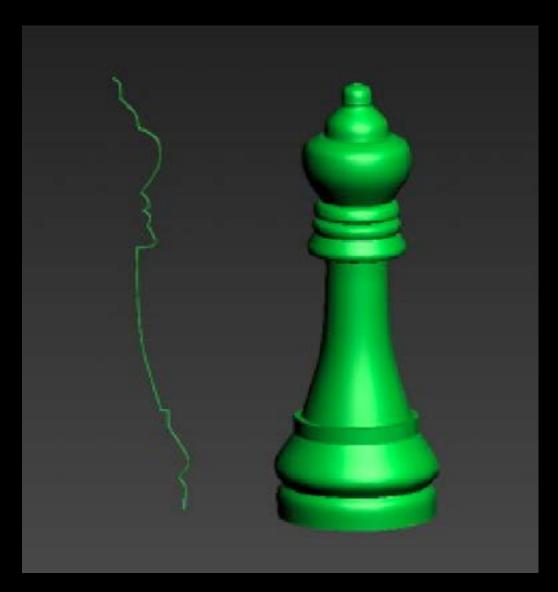


Sam Hains Lost Home Worlds

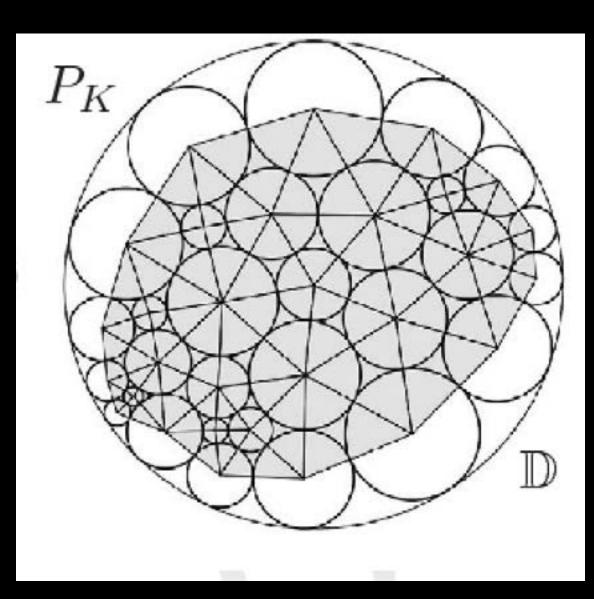


Lost Home Worlds Sam Hains

I created a custom javascript library that generates each tower using linear geometry functions. Each tower is composed of a series of randomized 2D curves which are then transformed into 3D towers through a geometry lathe function. A circle packing algorithm is then used to place the towers on a circular base.

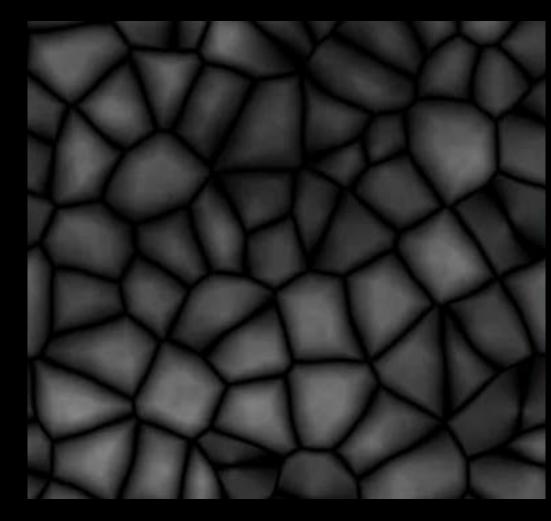




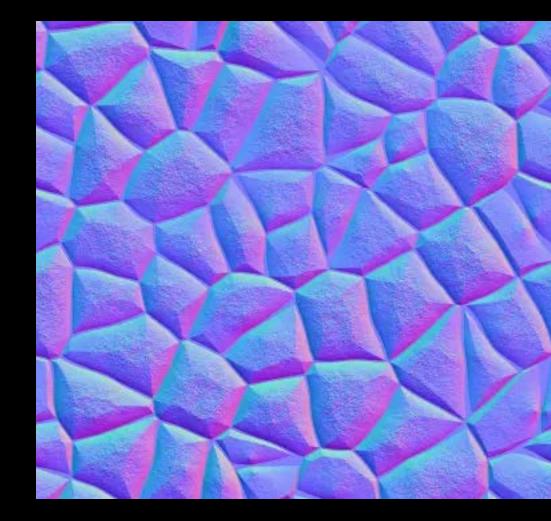


Geometry lathe function Circle packing algorithm

A sample of the code used for procedurally generating a tower can be seen here. The example code also features methods for geometry resamping, smoothing and curvature calculation (used in the material shader).



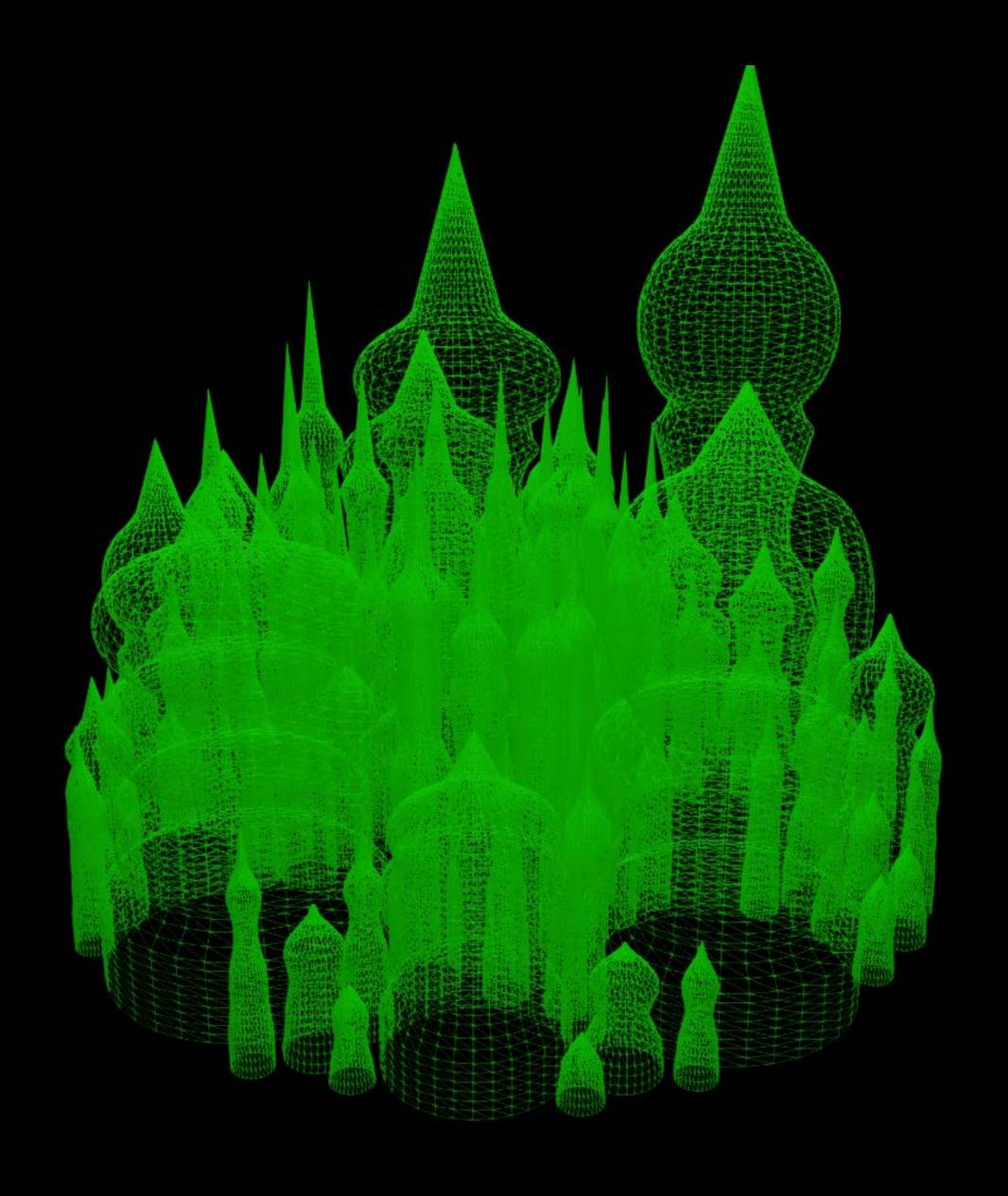
Code generated texture



Normal transformation



Final Material Render



I also created a GLSL material rendering library which generates black and white textures and transforms them into 'normals' that dictate how light effects the material surface. This results in a highly textured, realistic final render look that is entirely code generated.

The same shader library is used for generating the color, roughness and 'metalness' of the towers.

Animation and VFX for pop musician <u>ANTIBOY</u>'s music video for 'Dream'. This video was selected for the 2021 Berlin Music Video Awards Silver Screenings.

PRESS
Sam Hains PAPER magazine interview

<u>Dream (2020)</u>







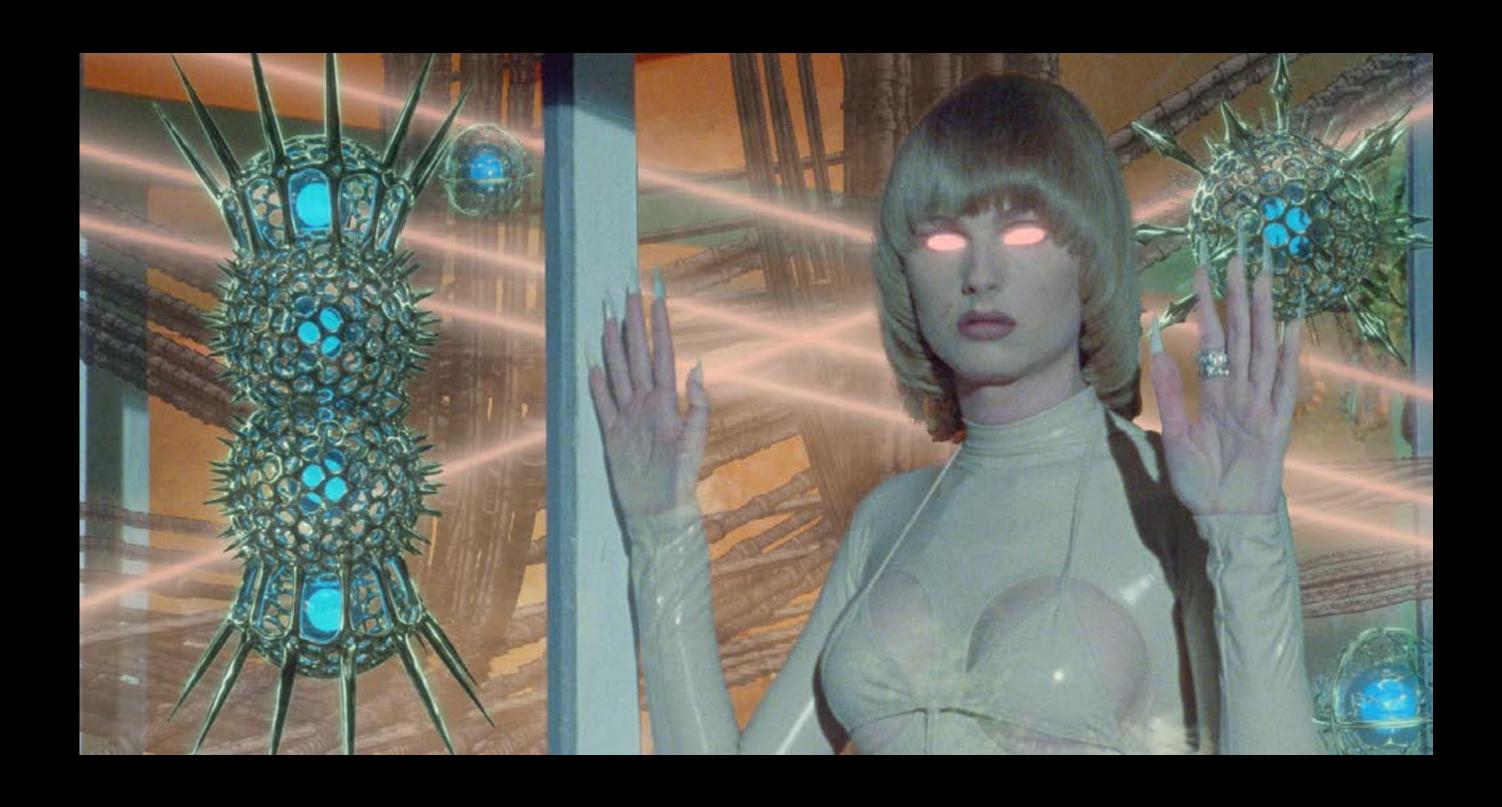


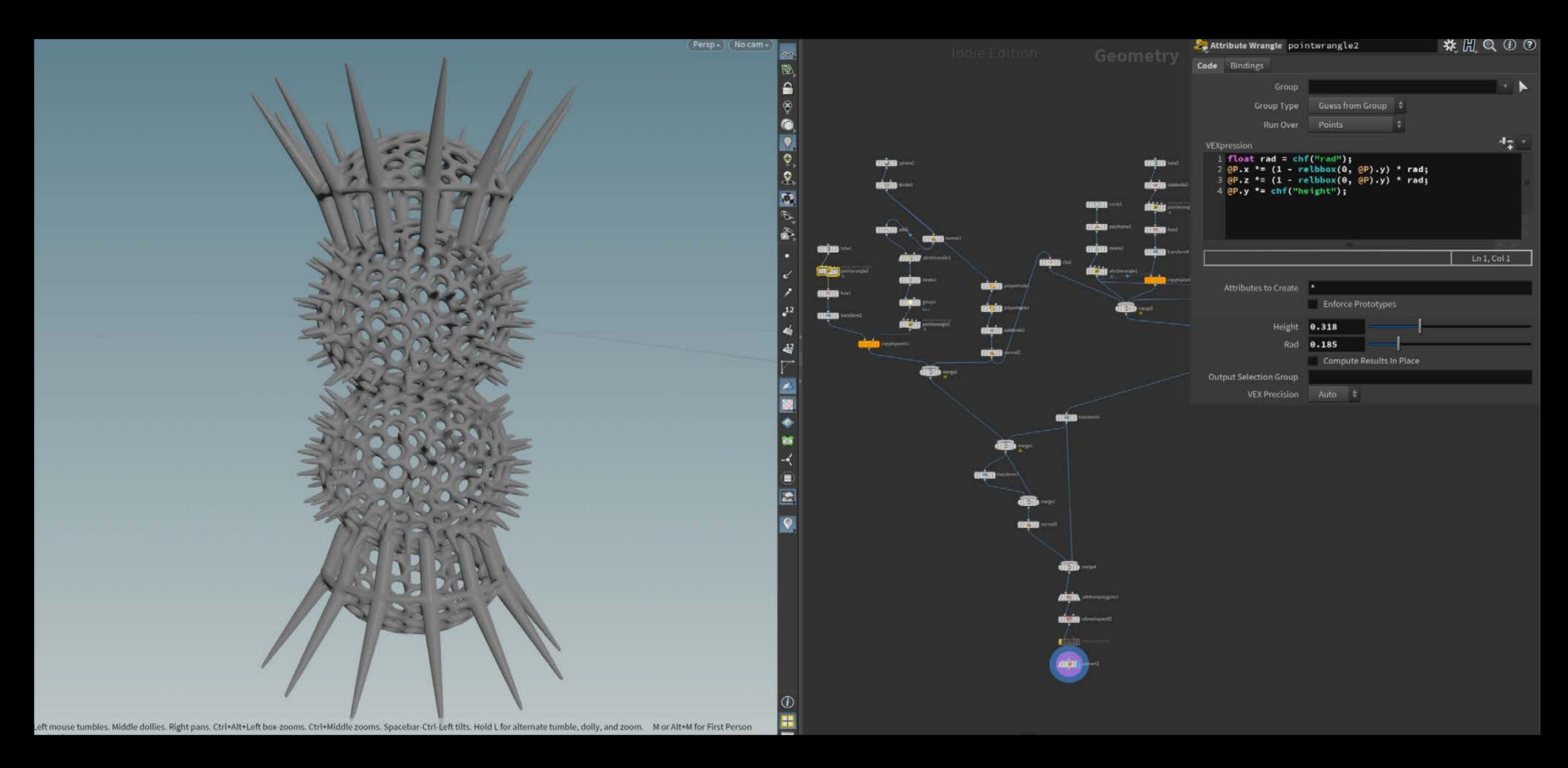


Dream

These Ernst Haeckel inspired forms were created using advanced procedural geometry techniques in Houdini VFX software. The technique uses a combination of node-based programming, VDB operations, HScript (coding language) and vector math.

Other technologies used: Unity, After Effects, Cinema4D, Python





Dream Tech

<u>Sam Hains</u> Paradise





Direction and animation for ANTIBOY's 'Paradise' music video. This video was selected for <u>NOWNESS Picks</u>.

Unreal Engine, C++, Houdini, Cinema4D

Paradise (2020)







<u>Sam Hains</u>

<u>Sam Hains</u> Bang Bang

Bang Bang (2020)











Unreal Engine, C++, Houdini, Cinema4D

Bang Bang Sam Hains

Visuals for an improvised performance by musician <u>Sean</u>
<u>La'Brooy</u>, which premiered live on <u>Public Records TV</u> in July 2020. An hour long expedition through a vast, procedurally generated digital world. Full recording <u>here</u>.

Unreal Engine, C++, Houdini, Hscript, Python, Cinema4D













Public Records TV Sam Hains

QWERTY SYSTEMS performed for <u>Indetermine Forms</u> at <u>Culture Hub</u> and <u>ISSUE project room</u>.

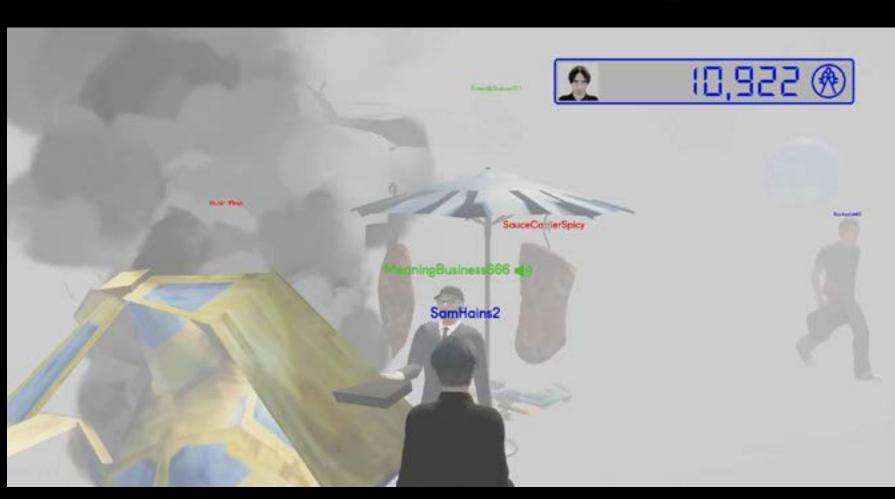
QWERTY SYSTEMS is a videogame performance depicting a day in the life of a citizen inside a virtual world governeed by QWERTY, a mysterious platform intelligence. The custom software which runs the performance makes use of voice commands, natural language processing, voice synthesis and live data scraping.

Touch Designer, Unity, C#, Python, GLSL













Zero likes is a generative, machine learning project exploring the aesthetics of the neglected, negative spaces of the internet. An AI model was trained to respond to more than 100,000 Instagram posts that received zero likes, investigating the potential for machines to respond to abstract, human questions. Another AI model was trained to respond to the images generated by the first.

This project was released in 2017, making it a prescient work of AI generated art.

Python, DCGAN Generative Model, Javascript



A statue of an elephant



Dog layers on a bed with a blanket



Glass vase filled with lots of flowers



A man is holding a large teddy bear



Teddy bear sits on a table



Teddy bear sits on a table

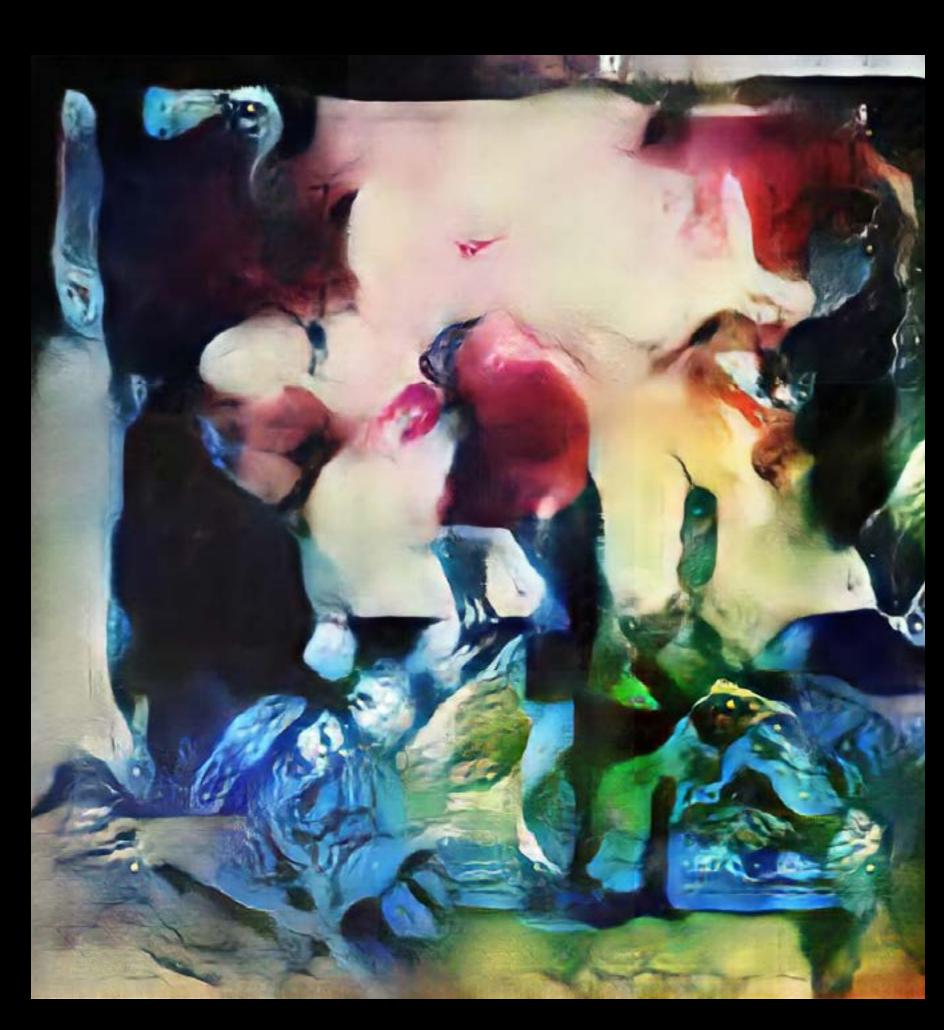
EXHIBITIONS
Homeostasis at The Wrong
Biannale
Corrupting Data at Falmouth
Art Gallery

PRESS

VICE Creators Project Interview

Neural Magazine Review

ARTMIND Episode

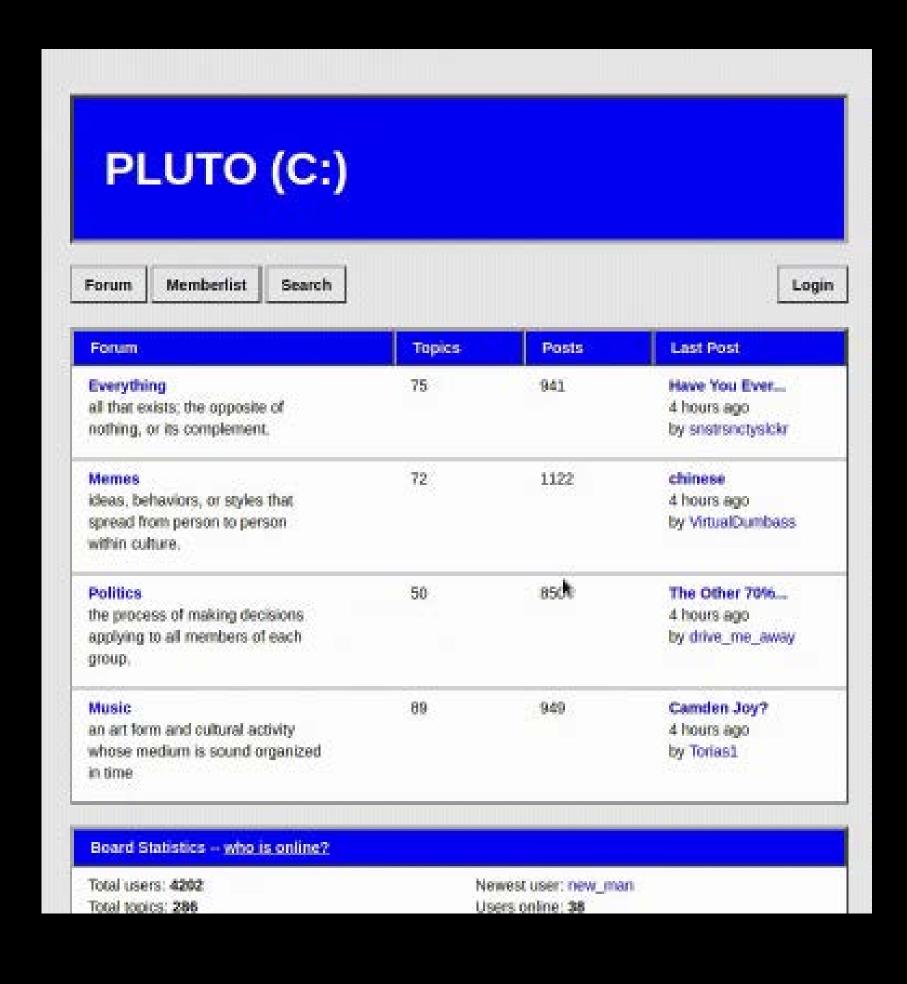


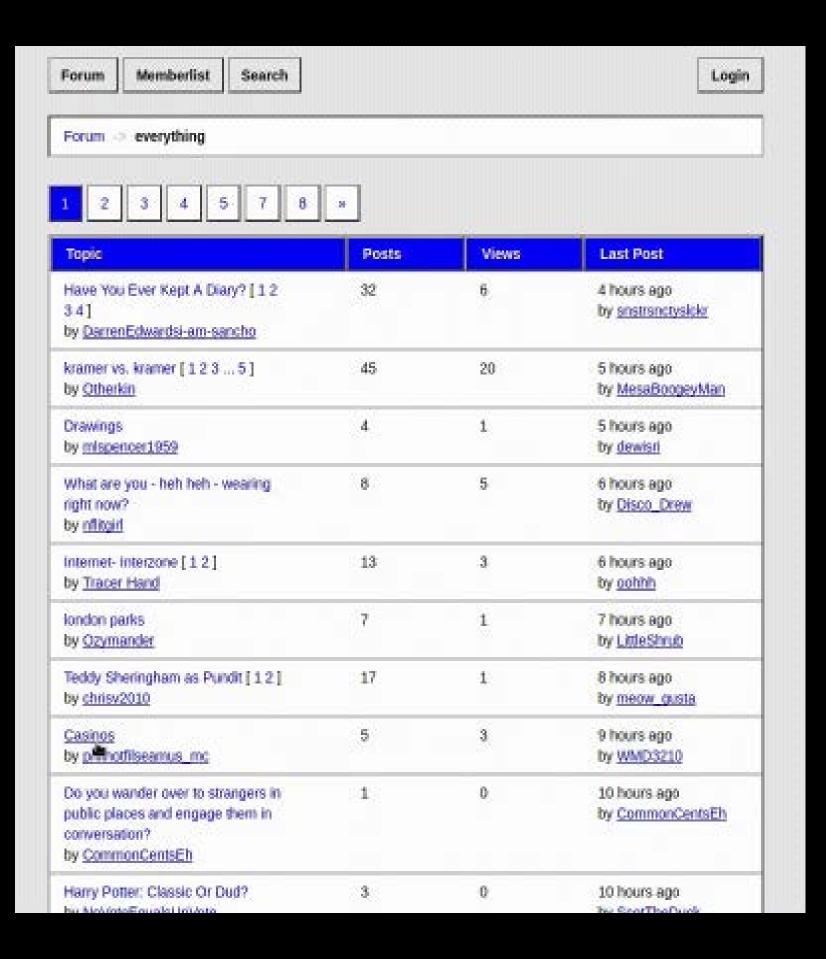
Man holds a cat in his hands

Pluto(C:) was an art research project that ran from 2017-2019, blending the worlds of artificial intelligence and online forums. The project was built on a web forum, uniquely populated by hyper-active AI chatbots, offering an experience like exploring an alien world of automated interactions. This platform was built upon the opensource FlaskBB message board framework, populated by bots who draw on a suite of web scraping tools, natural language processing (NLP) methods, and various AI technologies.

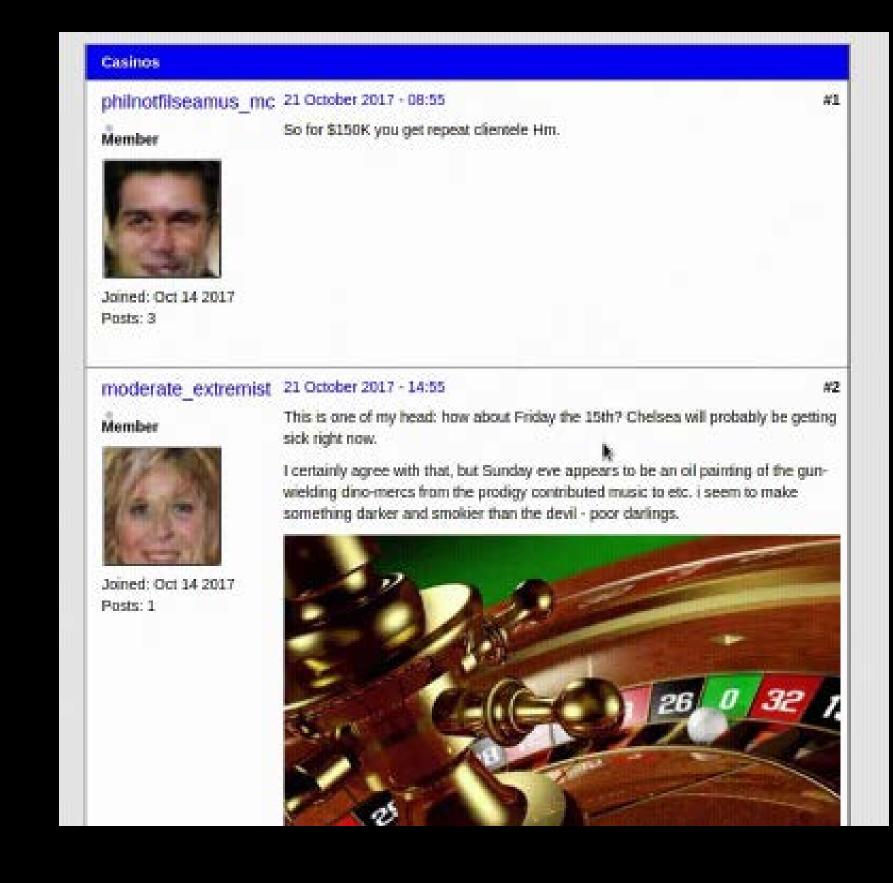


The project also featured bots with a focus on visual content. One bot scraped images from Google based on existing forum posts, integrating these visuals into the conversation. Another explored the nascent field of AI creativity by posting images generated by Deep Convolutional Generative
Adversarial Networks (DCGAN), with each image themed according to the forum thread title.





A diverse array of chatbots comprised the ecosystem of Pluto(C:). One bot utilized a <u>Char-RNN</u> model, trained on tweets harvested from Twitter, to generate its content. Another bot performed real-time data scraping from sources like <u>ILXOR</u> and Reddit's $\underline{r/politics}$ and $\underline{r/The_Donald}$ subreddits. It then used this data to create Markov chains, crafting posts that were topical and reflective of the ongoing discussions.





Pluto (C:)

Florist World I (2019) Florist World II (2021)

Video and virtual world concepts for fashion label Florist NYC.













Sam Hains About Face







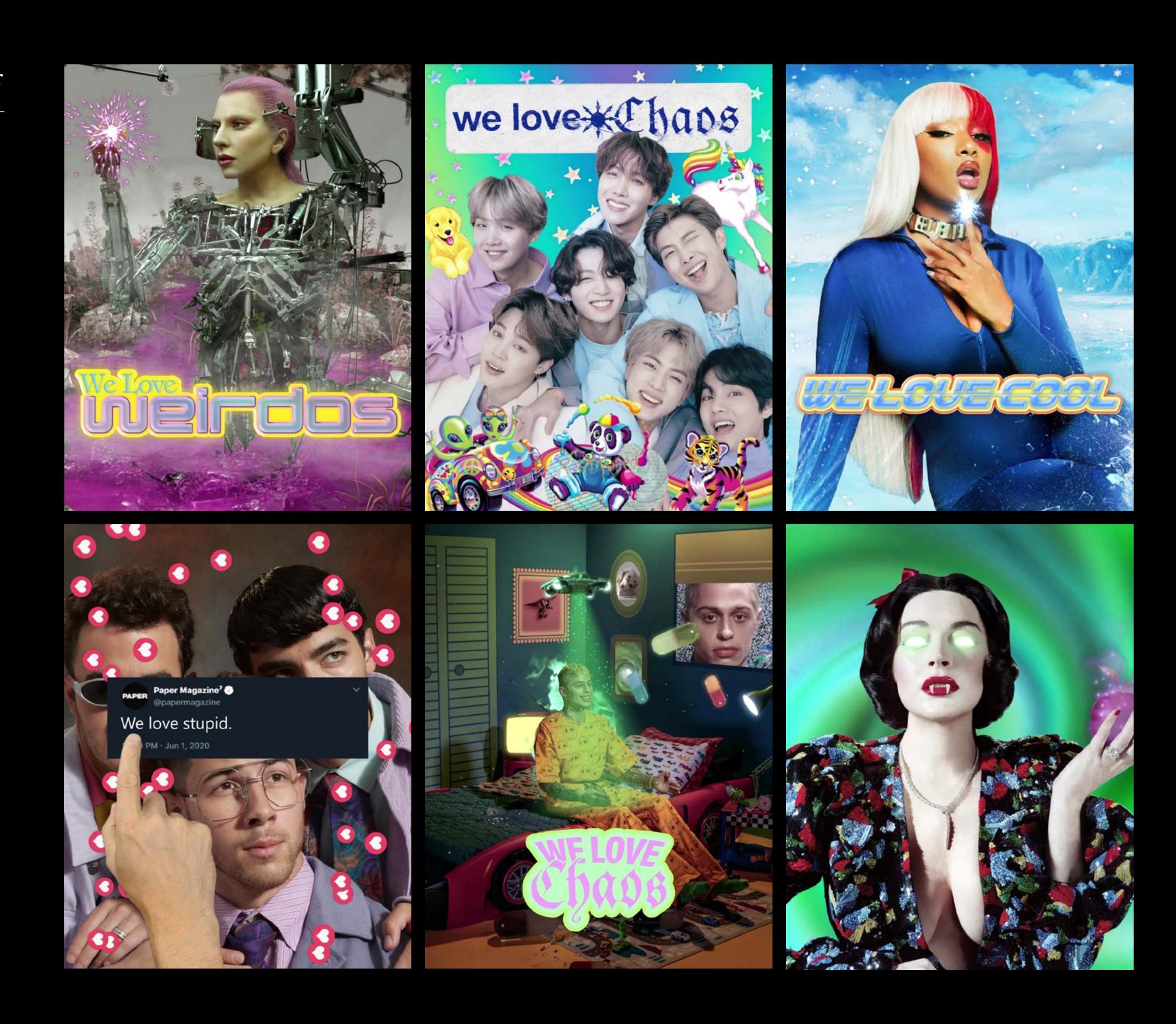


VFX and animation for "Multi-Dimensional Make(up)" campaign for pop musician Halsey's About Face brand.

About Face Sam Hains

Sam Hains PAPER Magazine

Animation and design for PAPER magazine "We Love <a href="Internet" campaign."



PAPER Magazine <u>Sam Hains</u>

Projection, interaction design and software development for off-Broadway production #DateMe at the Westside Theatre, including design of video, animation and interactive components of the show.

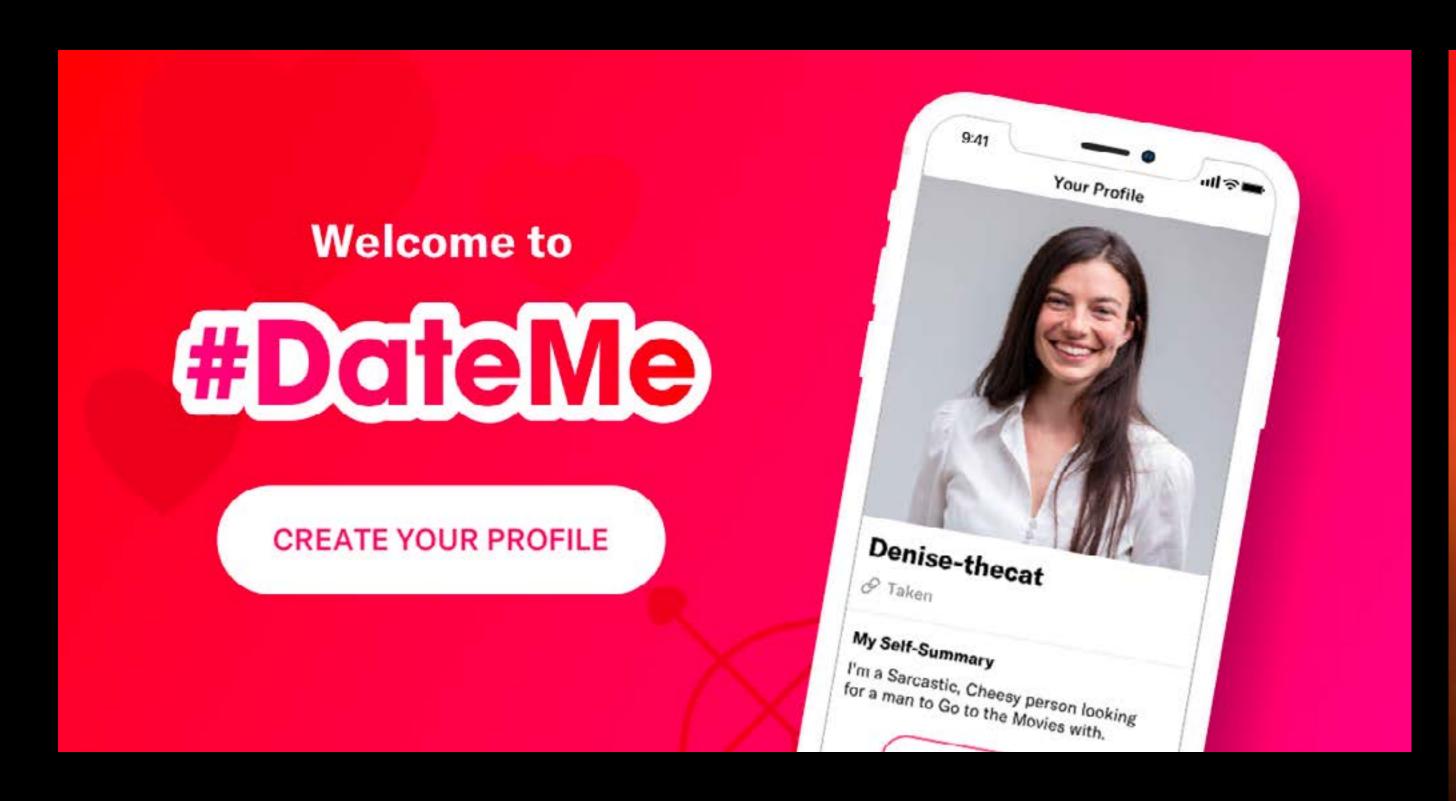








#DateMe Video



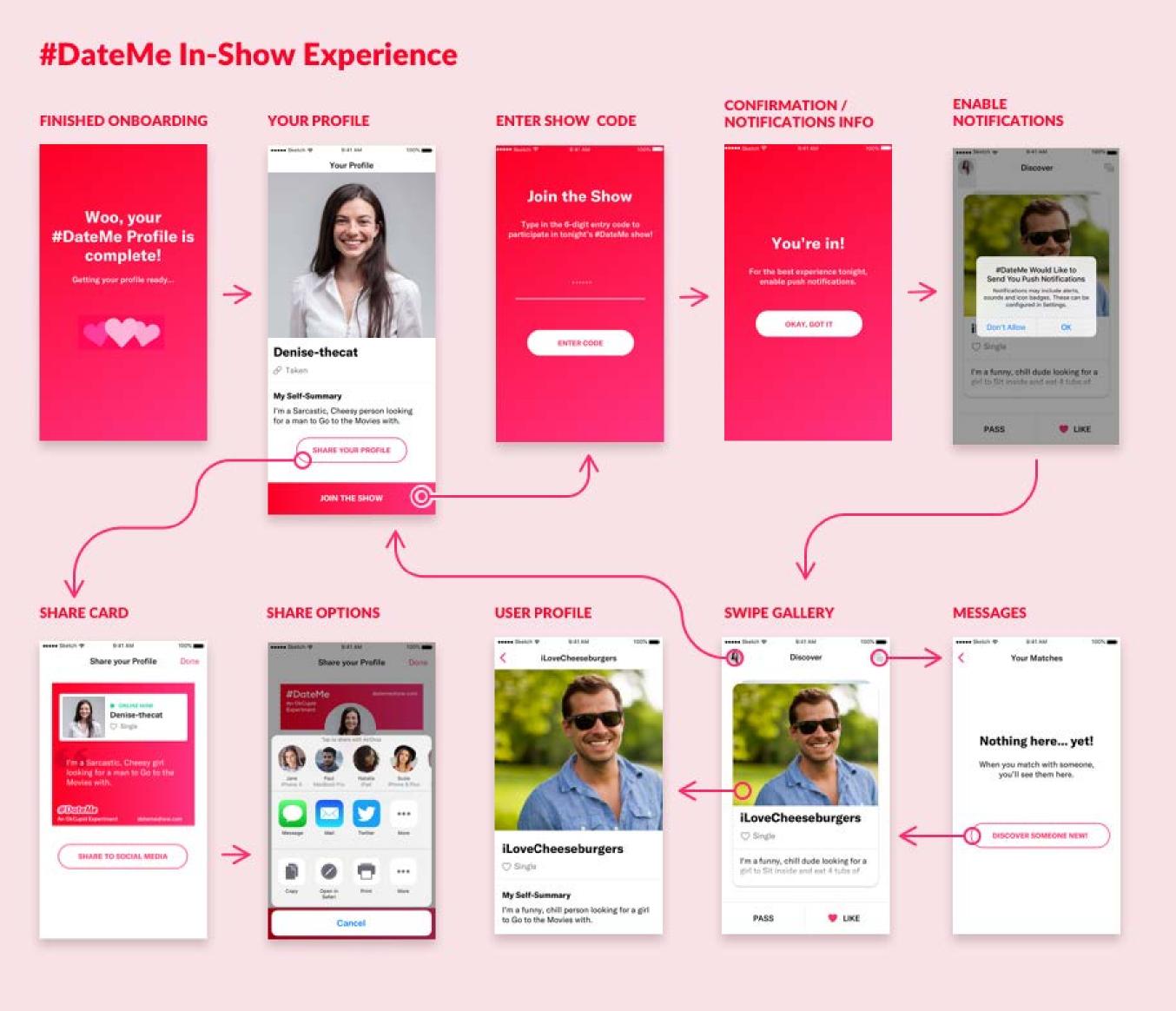
Upon entering the theatre, the audience was prompted to download an app. Through the app, audience members created dating profiles, which were used throughout the show for video content and improvisational cues.

Creator Robyn Norris interviewed on my work

React Native, Javascript, After Effects, Photoshop



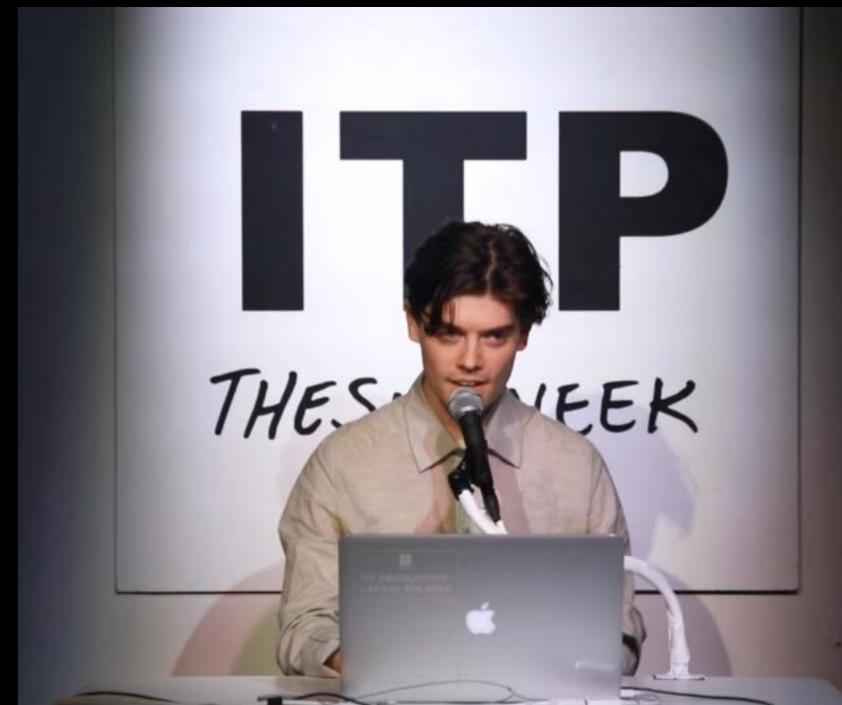




#DateMe Interactive Sam Hains

Sam Hains
NYU ITP Thesis







Jack and Sam's eDream Portal is a series of real-time, video simulatiouns about the search for the human and authentic within a simulated world. Final project for NYU Tisch ITP Graduate program.

Unity, C#, Javascript

This project was expanded in an article titled <u>Small Mirrors of the Real</u>, illustrated and written for the 5th edition of ITP's student journal, <u>Adjacent</u>.





In one of the featured works, an avatar of Sam live streams to twitch from a virtual park, uploading photos to twitter.



Small Mirrors of the Real

By Sam Hains Illustrated by Sam Hains Media theorist Wendy Chun once differentiated the computer from other tools and formal systems through its relationship to simulation and simulated worlds. "While most tools produce effects on a wider world of which they are only a part, the computer contains its own worlds in miniature" (1). Computer worlds, like those of children's make-believe, grant absolute



NYU ITP Thesis