

Deep Modern

Unsupervised is part of Machine Hallucinations, Refik Anadol Studio's ongoing project exploring data aesthetics based on collective visual memories. Since the inception of the project in 2016, Anadol has utilized machine intelligence as a collaborator of human consciousness, specifically DCGAN, PGAN, and StyleGAN algorithms trained on vast datasets to unfold unrecognized layers of our external realities. Anadol and his team collect data from digital archives and publicly available resources, and process these datasets with machine-learning classification models. As a masterfully curated multi-channel experience, Machine Hallucinations brings a self-regenerating element of surprise to the audience and offers a new form of sensorial autonomy via cybernetic serendipity.

Unsupervised emerges from such an aesthetic/scientific vision and processes 138,151 pieces of metadata from the vast collection of The Museum of Modern Art in the mind of a machine. Using StyleGAN2 ADA to capture the machine's transformative "hallucinations" of modern art in a multi-dimensional space, Anadol trains a unique AI model with subsets of the archive of MoMA's collection of artworks, creating embeddings in 1024 dimensions. The sorted image datasets are then clustered into thematic categories to better understand the semantic context of data. This expanding data universe not only represents the interpolation of data as synthesis, but also becomes a latent cosmos in which hallucinatory potential arises from a novel form of artistic creativity interpreting MoMA's unparalleled collection of modern and contemporary art. Spanning more than 200 years of art, from paintings to photography to cars to video games, the MoMA collection is an extraordinary data set—within which works from artistic movements such as Surrealism, not unlike Unsupervised, explored automatism, chance, and systems to generate unprecedented new art forms.

This is work that resonates aesthetically and also pushes machine-learning research into new territories. Anadol is in dialogue with scholars such as Jaakko Lehtinen, Distinguished Research Scientist at NVIDIA Research, who are inventing the technologies that the artist is using. On seeing this new body of work, Lehtinen remarked:

This is the beauty of fundamental research: to see the progress we've made on a hard, technical machine learning problem being unexpectedly channeled to serve such astounding creativity is extremely satisfying. We're thrilled to witness the deepening interplay between art and AI research, and eagerly looking forward to seeing what we can do together in the future.

The AI-based abstract images and shapes that result from the machine's unsupervised learning of modern art are dictated by the Museum's collection archive, weighted toward the special exhibition of new artworks at MoMA this fall. The AI data pigmentation, in turn, captures the movement in the latent space created by autonomous machine hallucinations. Each data connection is driven by an edge-detection algorithm and colorized by the density of its previous and next latent coordinates. In other words, the machine allows the artist to trace its "unconscious decisions," in a network of intricate and poetic connections.

Unsupervised — Machine Hallucinations — MoMA

What would a machine mind dream of after "seeing" the vast collection of The Museum of Modern Art? In other words, if the corpus of images of the MoMA collection had been accomplished by a single artist, what would their dreams look like? Emerging from Machine Hallucinations, Refik Anadol Studio's multi-year research project that investigates data aesthetics based on collective visual memories of humanity, "Unsupervised — Machine Hallucinations — MoMA" processes 138,151 images from MoMA's collection in the mind of a machine.

For this work and the other works in this collection, Anadol processed the entire digitized archive of MoMA through StyleGAN2, an algorithm developed by NVIDIA researchers with adaptive discriminator augmentation (ADA). He then explored a latent space with a custom software called a Latent Space Browser, which Refik Anadol Studio has been developing since 2017.

"Unsupervised — Machine Hallucinations — MoMA" is a realtime, software artwork that moves through the latent space of the trained GAN to continuously generate new images. Because it's too computationally intensive to run through a web browser on non-specialized computers, it is previewed as a captured video on the Feral File site. The artwork comes with an artist-signed 3D physical certificate with backup, a custom computer with software, and a Samsung 75" QLED 4 display, to be shipped from the artist's studio to the first collector in early 2022. This 1/1

unique video artwork will be collected through a highest-bid auction.

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