

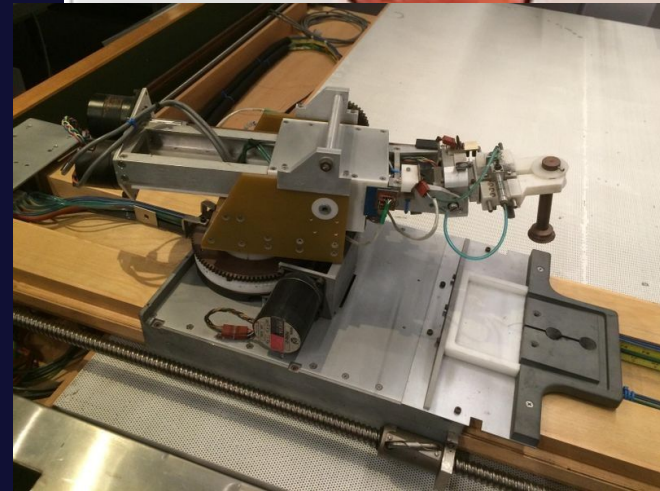
The logo for Cer AI mics features the word "Cer" in a serif font, a stylized "AI" inside a glowing blue rounded square, and the word "mics" in a serif font. The entire logo is set against a background of a server room with blue lighting and a complex circuit board pattern in gold and blue. The background also features a starry space theme with golden bokeh lights.

Cer AI mics

Kim Ho, Alex Banag, and Jackson Harrod

AARON - the first AI art system

- created and developed by Harold Cohen over 40 years from the 1970s to 2016
- a computer program capable of creating original art



A photograph of Harold Cohen, an elderly man with a white beard and glasses, wearing a blue sweater and jeans. He is sitting on a concrete ledge, typing on a vintage computer terminal. Behind him is a large, vibrant, abstract painting with bold colors like red, yellow, green, and blue, featuring stylized, organic shapes. The scene is set in what appears to be an art studio or gallery.

HAROLD COHEN

- lived from 1928 - 2016
- a painter and pioneer in computer art, algorithmic art, and generative art
- an important bridge between the two worlds

Who was the artist— AARON or Cohen?

- a mutual relationship between artist and machine
- had to be taught rules and forms through algorithms
- taught how to color in 1995
- animal forms were attempted but ultimately dropped because outcomes were inconsistent





Socrates' Garden -

- biomorphic forms created by AARON
- Cohen took the images, enlarged them, colored them with acrylic paint, and mounted the individual forms on plywood, arranging them to form a “tree”
- a perfect example of a mutual partnership between artist and AI

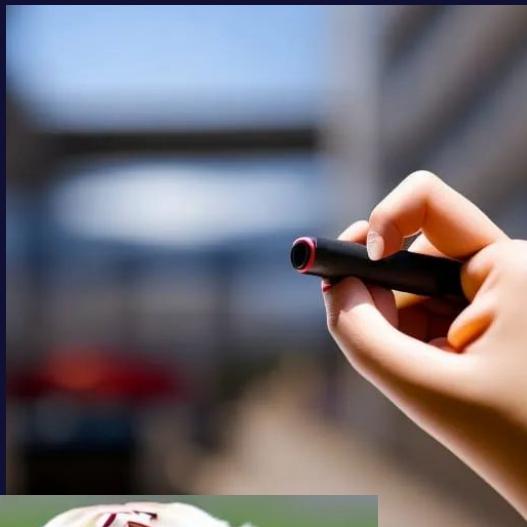
Criticisms of AI art

- most of the criticisms stem from the learning process
 - AI trained by showing it many pieces of a particular style
 - often done without permission from the original artists
- copyright laws are not yet developed enough to protect artists
- AI is also unable to act ethically in its creation of art;
 - results in hypersexualized images or reinforces stereotypes
- many artists fear that AI will completely dominate their field
 - AI performs quicker
 - able to mimic any style of art
 - the value of illustration will go down

AI-ccidents

prompt: a hand holding a marker

prompt: a dog drinking water from a water bowl





Registan Square,
Samarkand, Uzbekistan



Typo: AI-generated
“Registon Square” in the
style of anime

NightCafe

- NightCafe Creator was founded by Angus Russell in November 2019
- As of October 2022, over 35 million artworks have been generated using the platform's AI

NightCafe

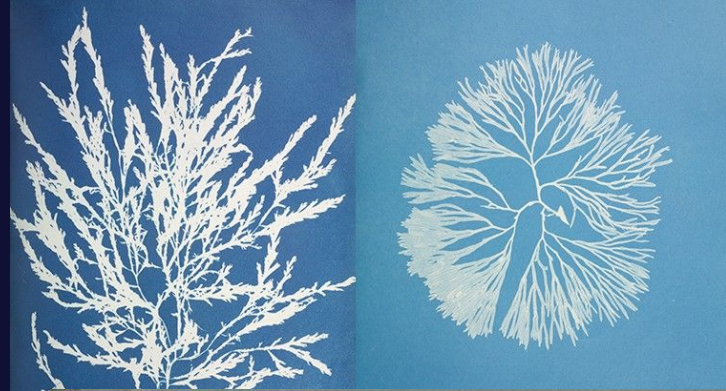


Algorithms Available on NightCafe

- VQGAN+CLIP: Vector Quantized Generative Adversarial Network and Contrastive Language–Image Pre-training)
 - GANs: systems where two neural networks are compared to each other -a generator that creates and a discriminator which scores how plausible results are
 - CLIP: neural network which finds images based on natural language descriptions
- DALLE-2: Open AI's latest text-to-image algorithm
- Stable Diffusion: a deep learning, text-to-image model released in 2022,
 - open-source algorithm
 - inspiration from DALL-E 2, Imagen and other advanced systems

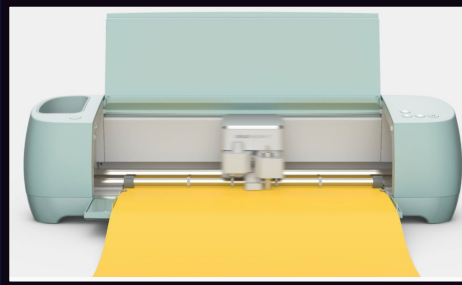
Cyanotype Process

- Developed by John Herschel in 1842
- Two chemical solutions: potassium ferricyanide and ammonium ferric citrate (light sensitive salt)
- Application on paper/clay
- Negative placed on top
- Exposure to sun



Cyanotype Process Cont.

- Stencil-like AI-generated art
- Edited using Silhouette Studio
- Used a cricut to create a vinyl sticker
- Peeled off portions of the sticker for the positive and negative



Results

- ChatGPT Assisted Text: “A striking portrait of a woman with captivating features, a confident expression, and a sense of mystery. The woman is depicted in a bold, graphic style, with clean lines and minimal details. The design should capture the essence of the woman's personality and convey her unique beauty and individuality.”
- Style: Stable Diffusion ~ Anime v2



Results

- Text: Prompt +
“crown of flowers”
- Style:
Stable Diffusion ~
Anime v1



Limitations

- Only NightCafe was used to generate art for this project, but there are lots of AI text-to-image generators out there
 - Possible to create your own generator
- Cyanotypes can be used to transfer more detailed AI art (not stencils), however, this method requires a specific type of transparent paper, the art to be edited into a negative, and a UV light for best results

Conclusion

- AI = a new age of art
- fear and criticism come with any new technology
 - many saw photography as the end of human artistry
- AI should be viewed like any other medium
- AI art should be used as a means for collaboration between humans and technology

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