

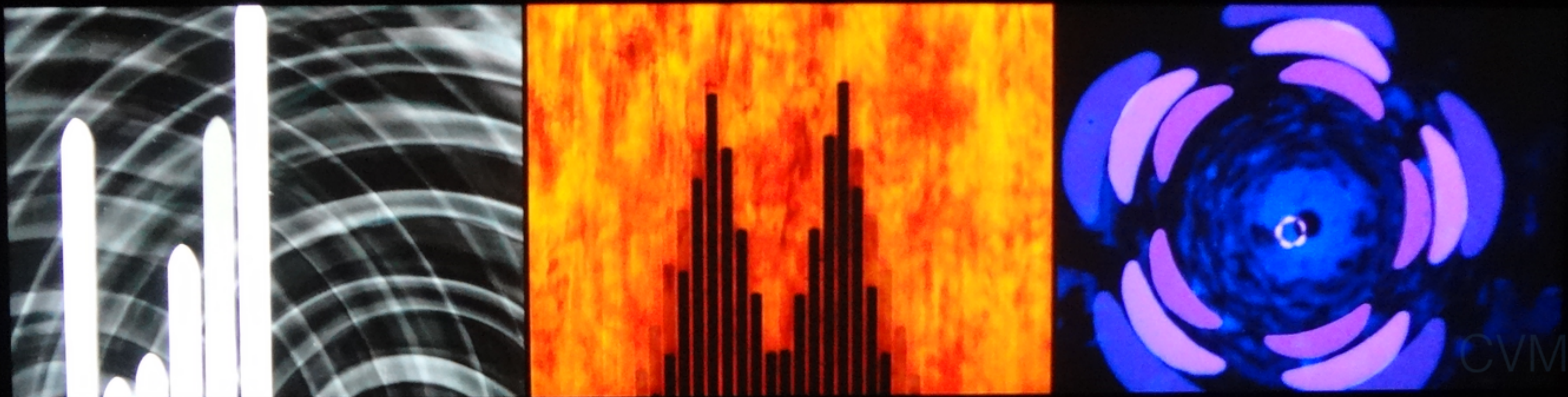


CULTURAL AUTOMATION WITH MACHINE LEARNING

SESSION 07: GENERATIVE VIDEO

Parag K. Mital
UCLA DMA

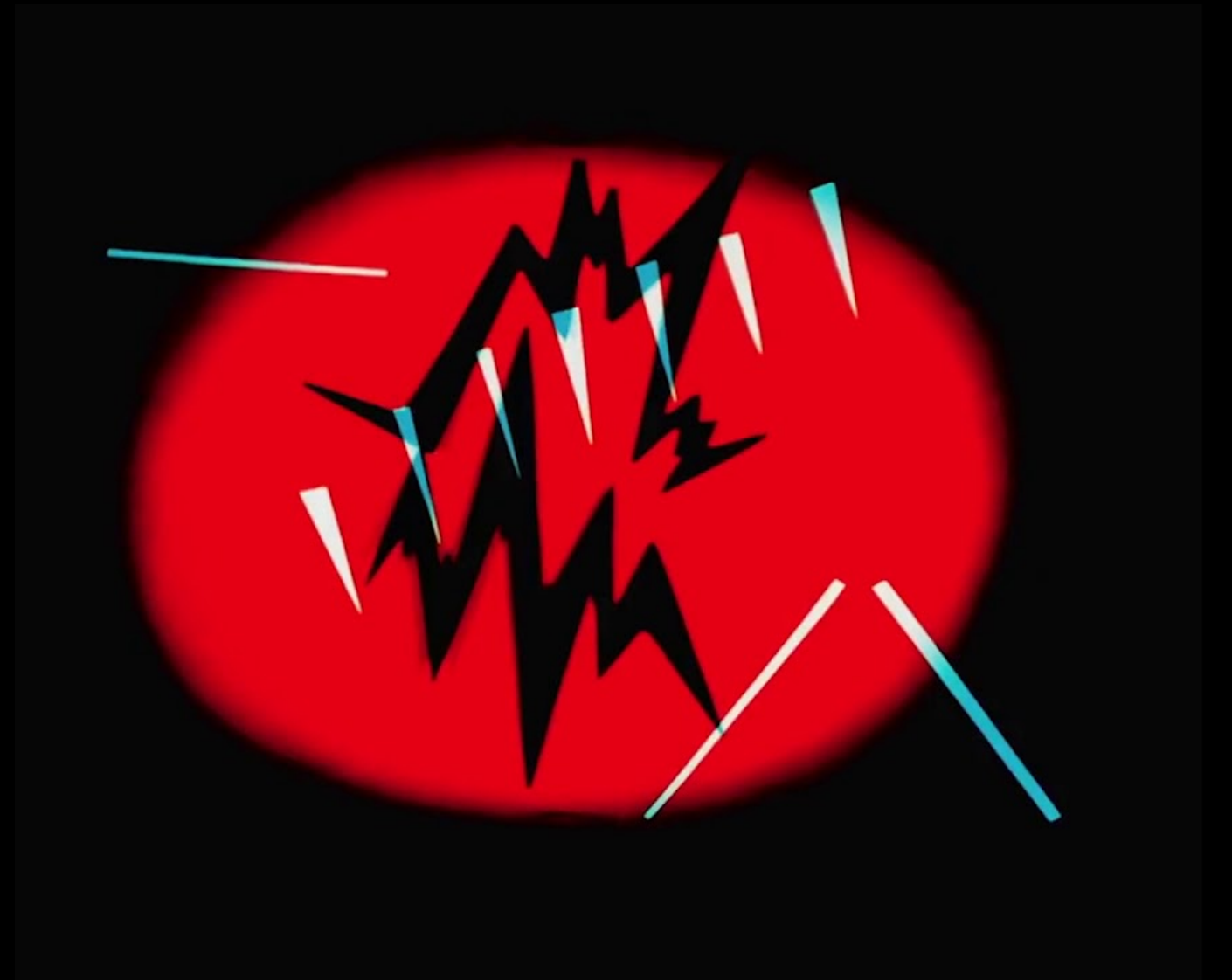
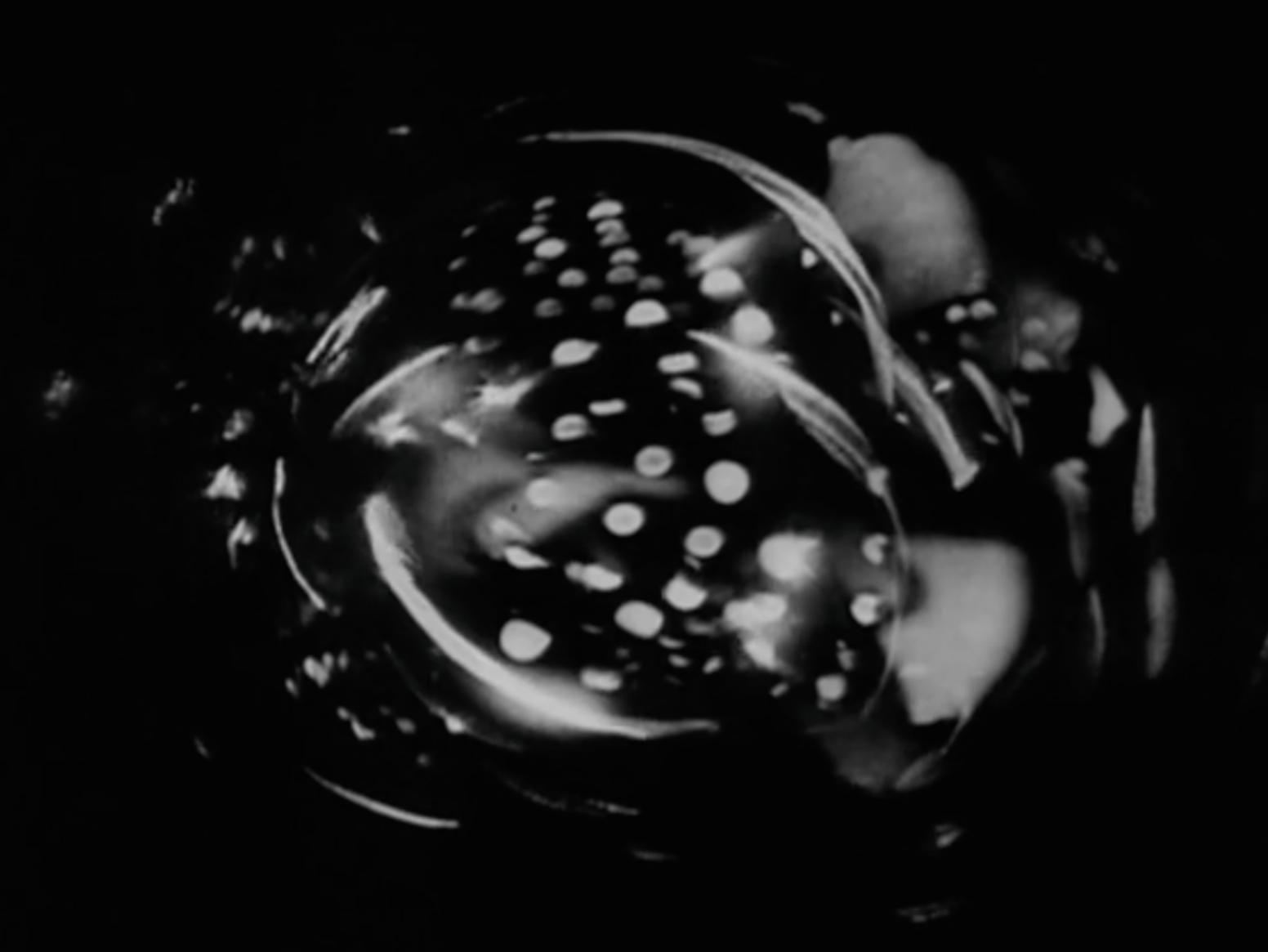
CULTURAL CONTEXT + HISTORY OF GENERATIVE VIDEO



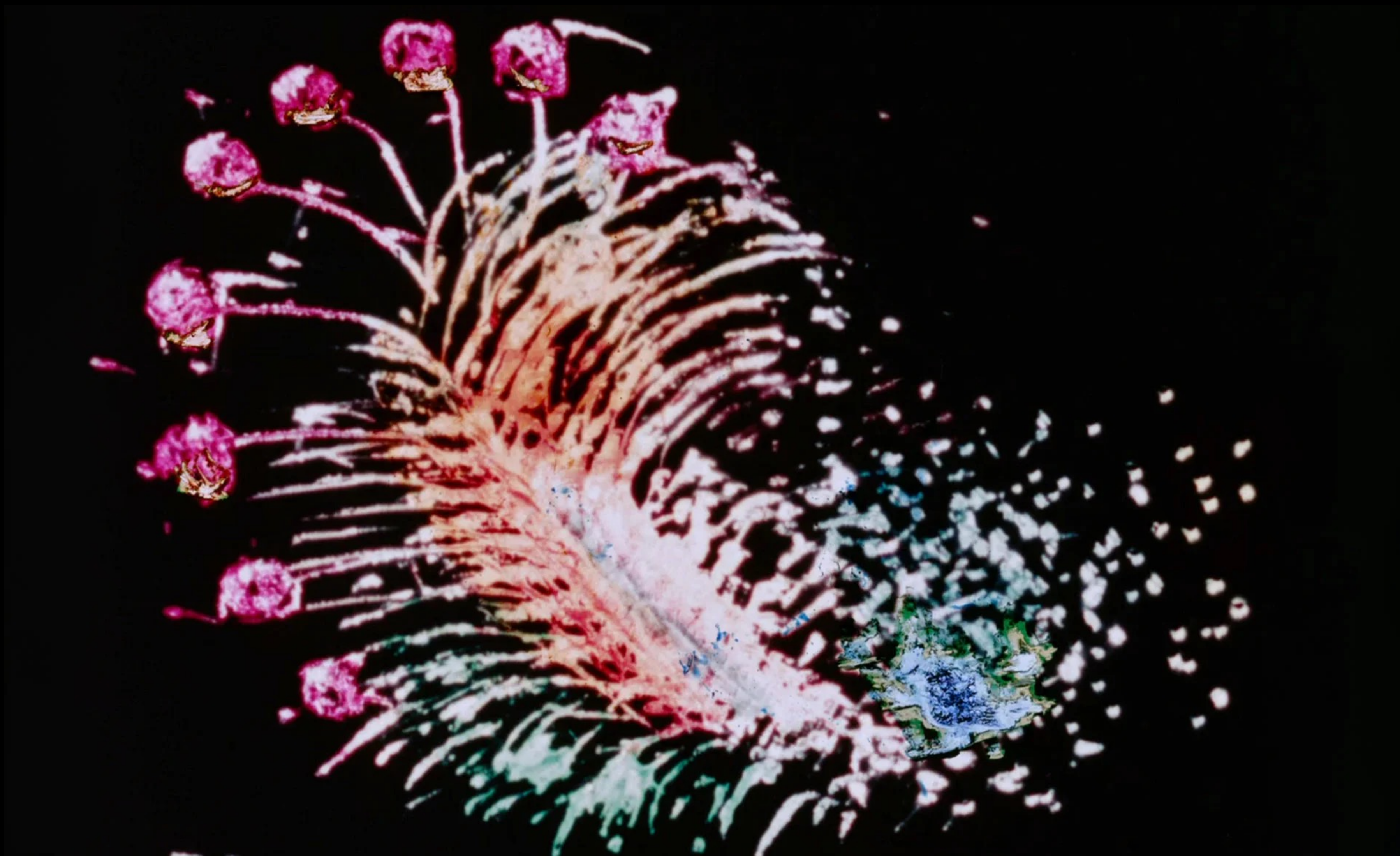
Oskar Fischinger (1930's -40's)

<https://www.acmi.net.au/education/school-program-and-resources/the-art-of-visual-music/>

<https://www.google.com/logos/2017/fischinger/fischinger17.html>



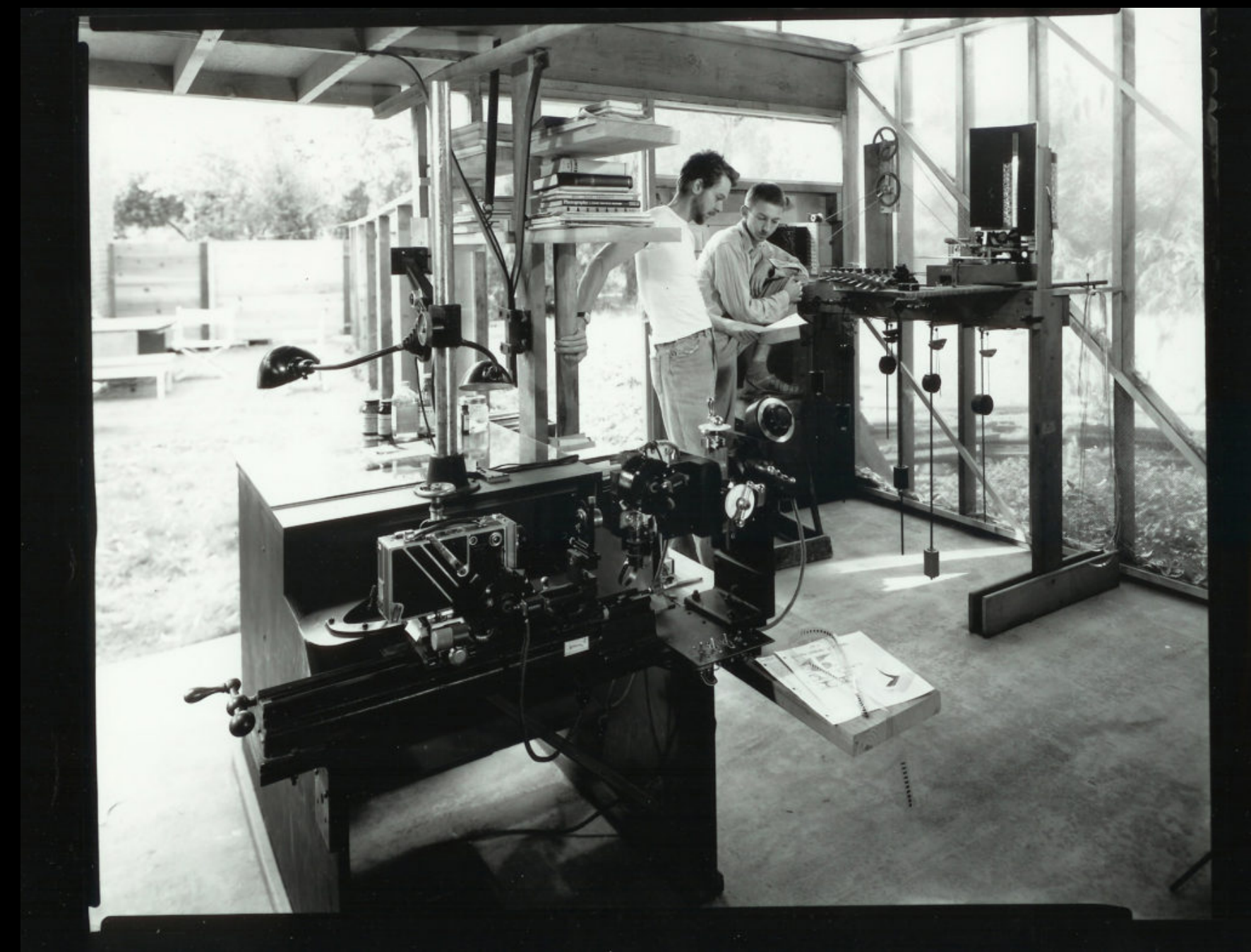
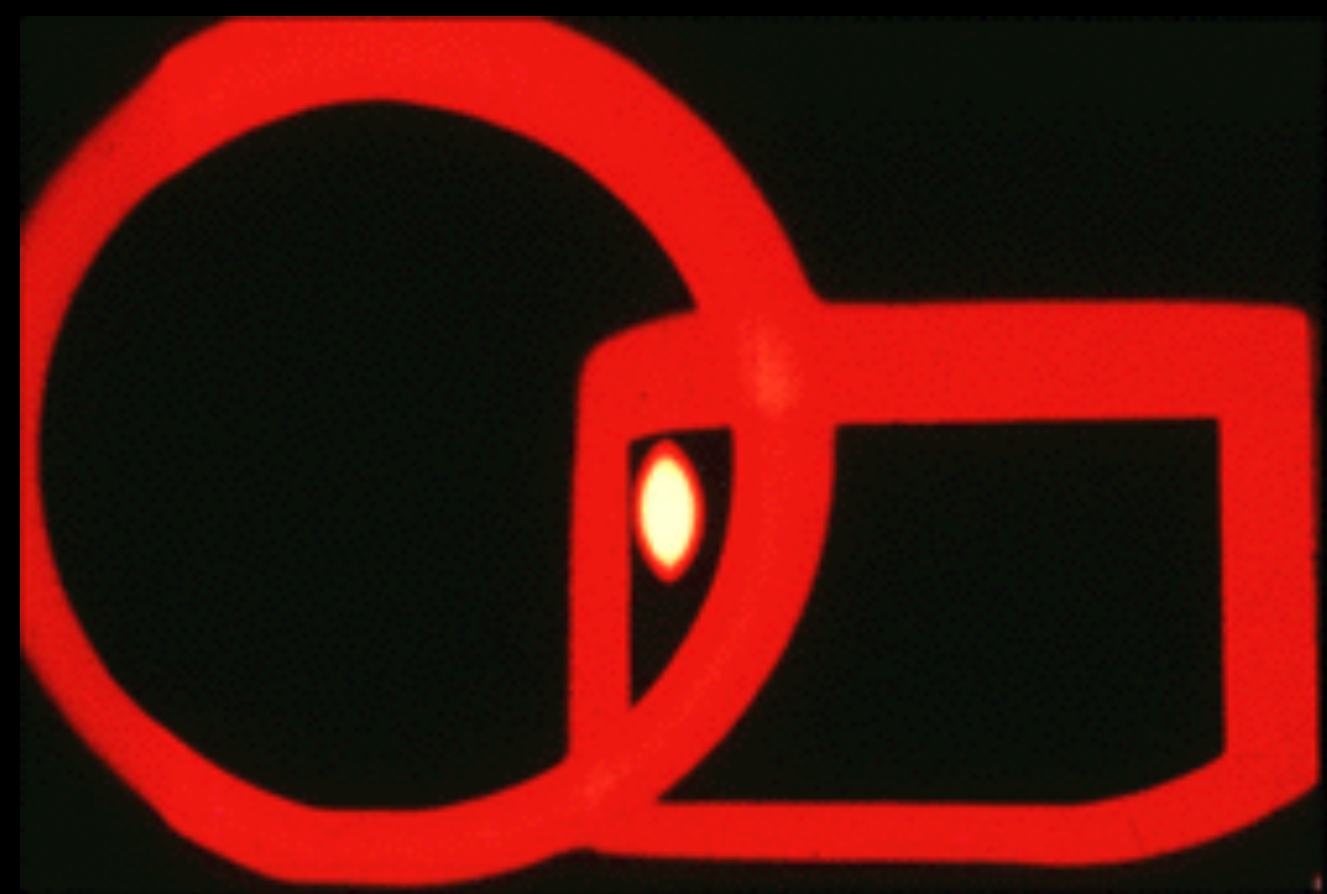
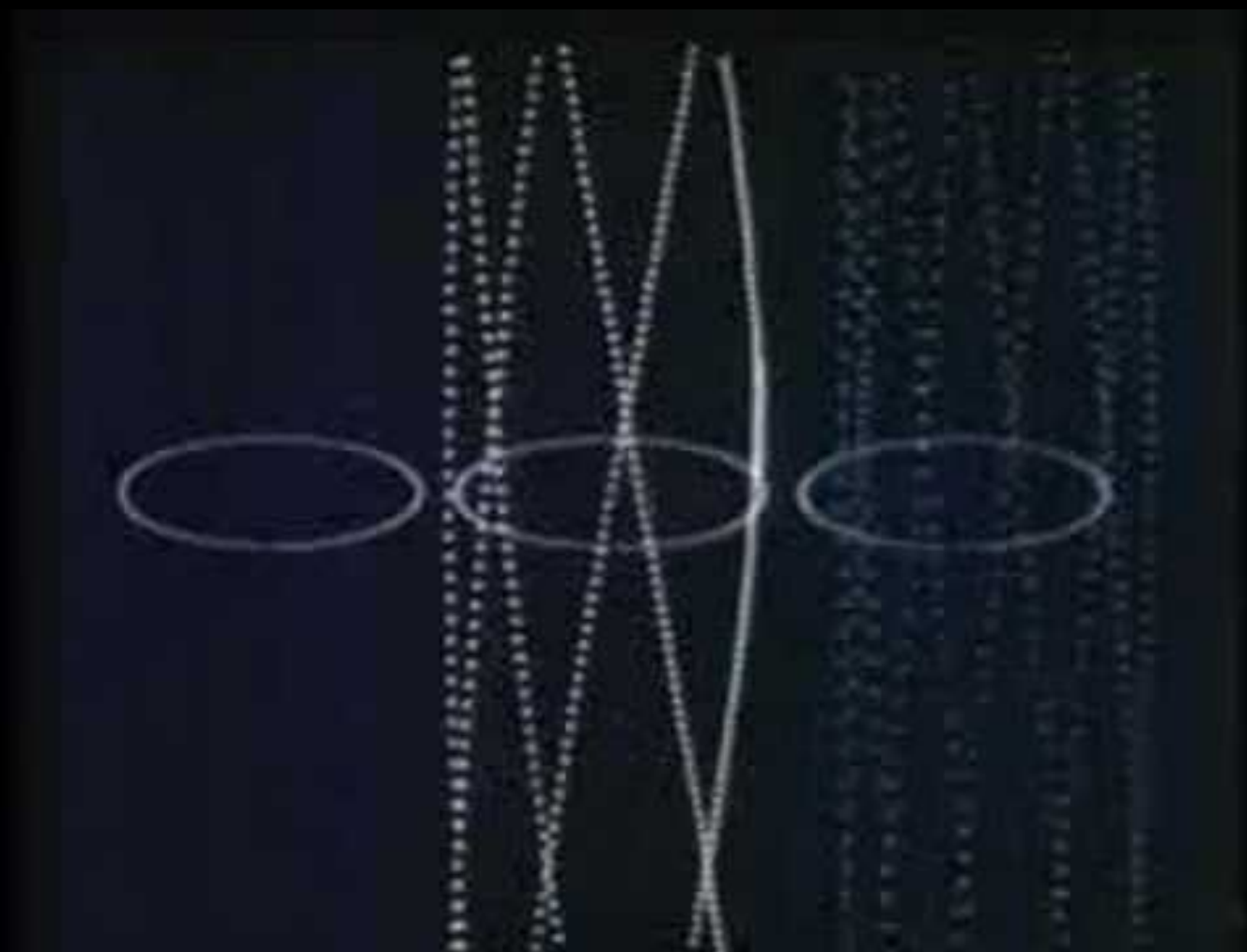
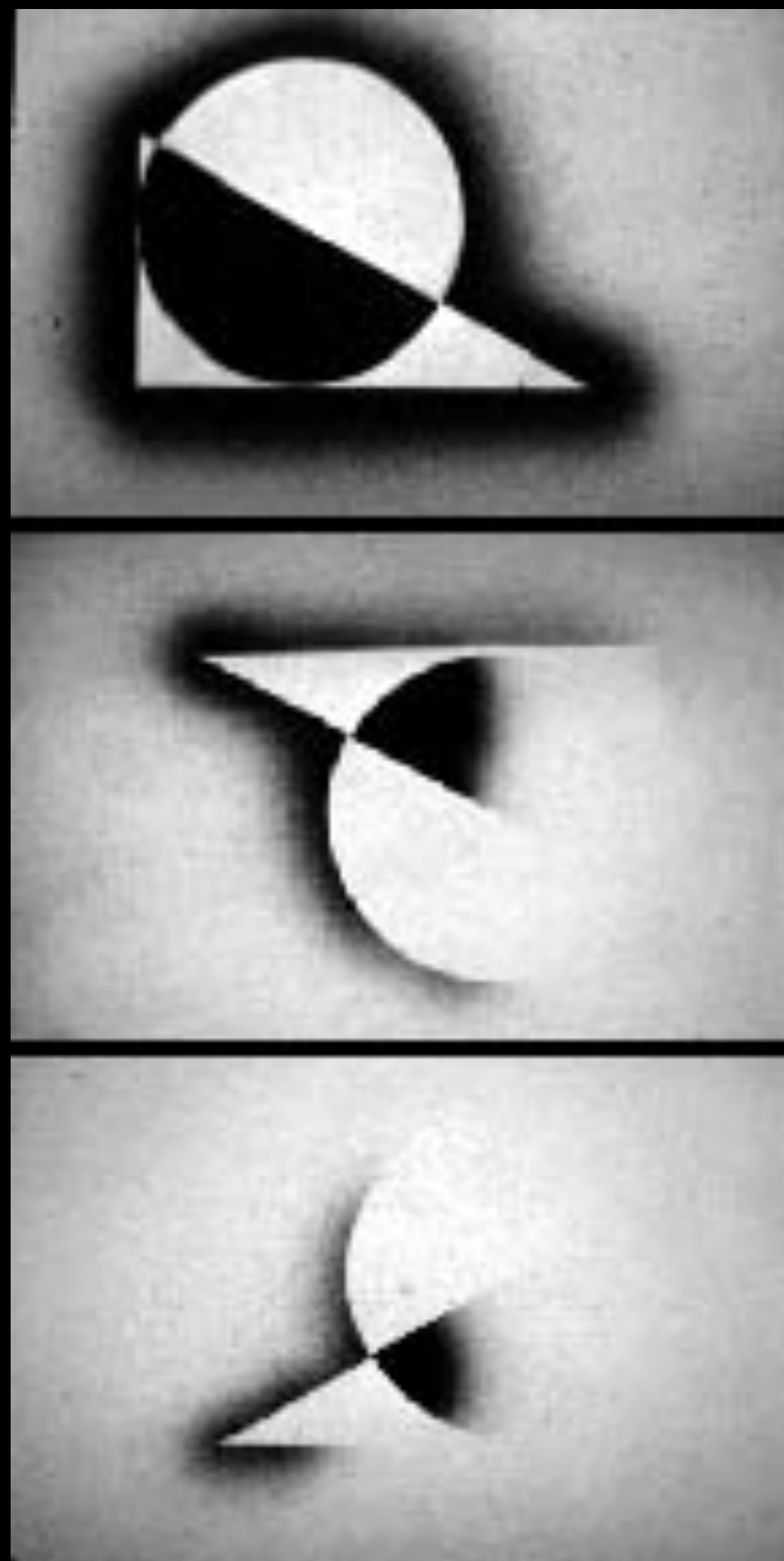
Mary Ellen Bute (1930's - 40's)



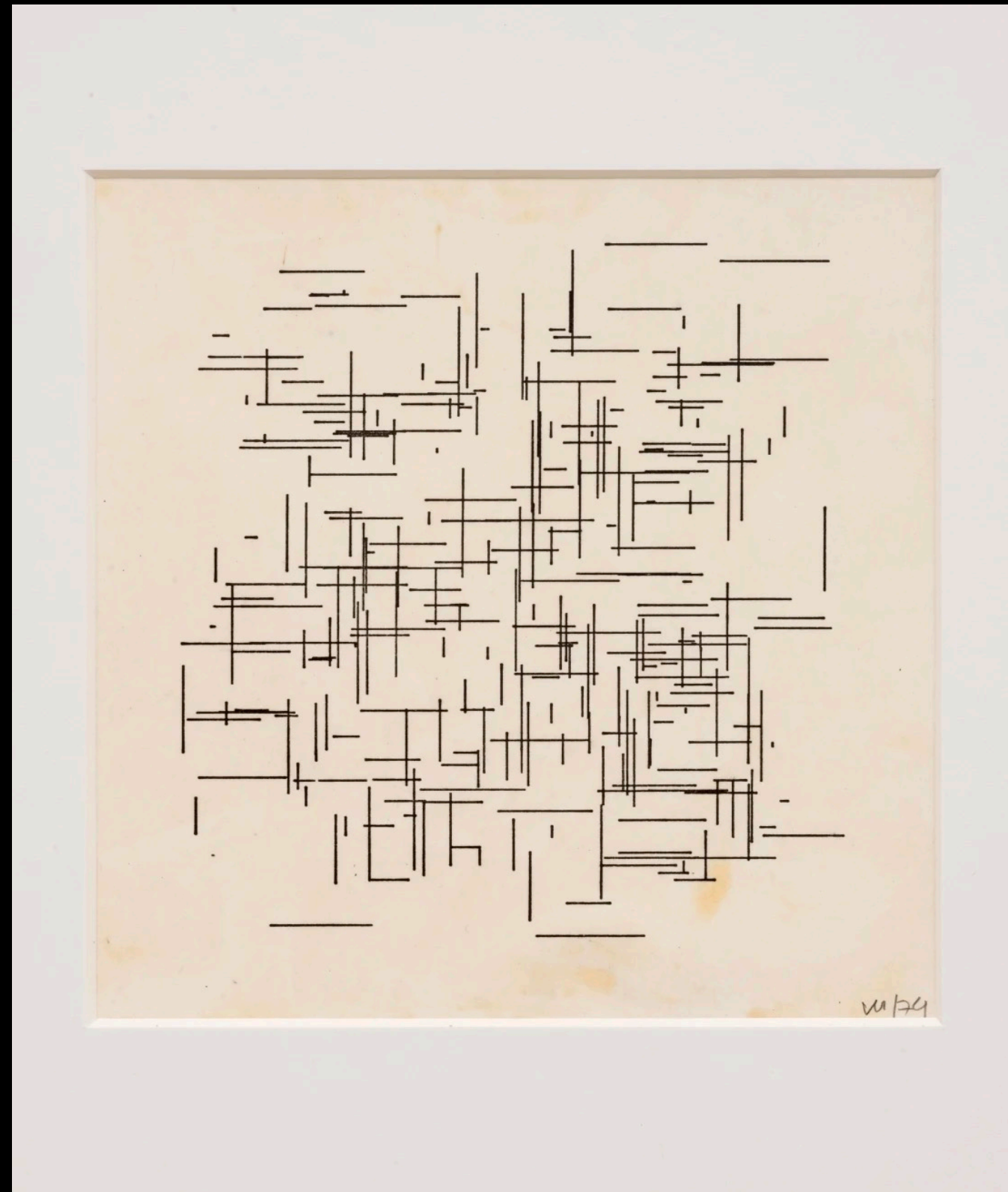
Norman McLaren (1940's -50's)



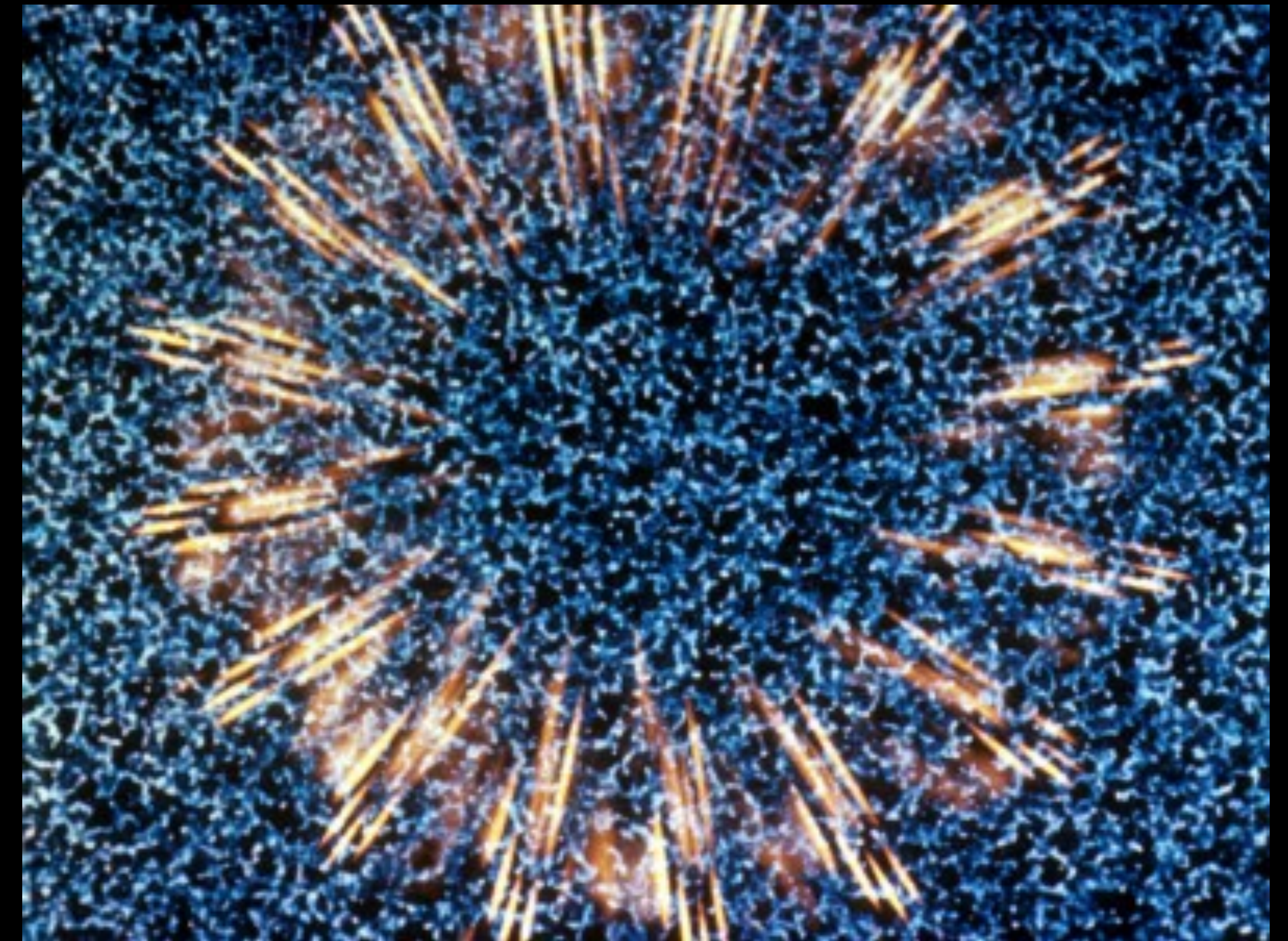
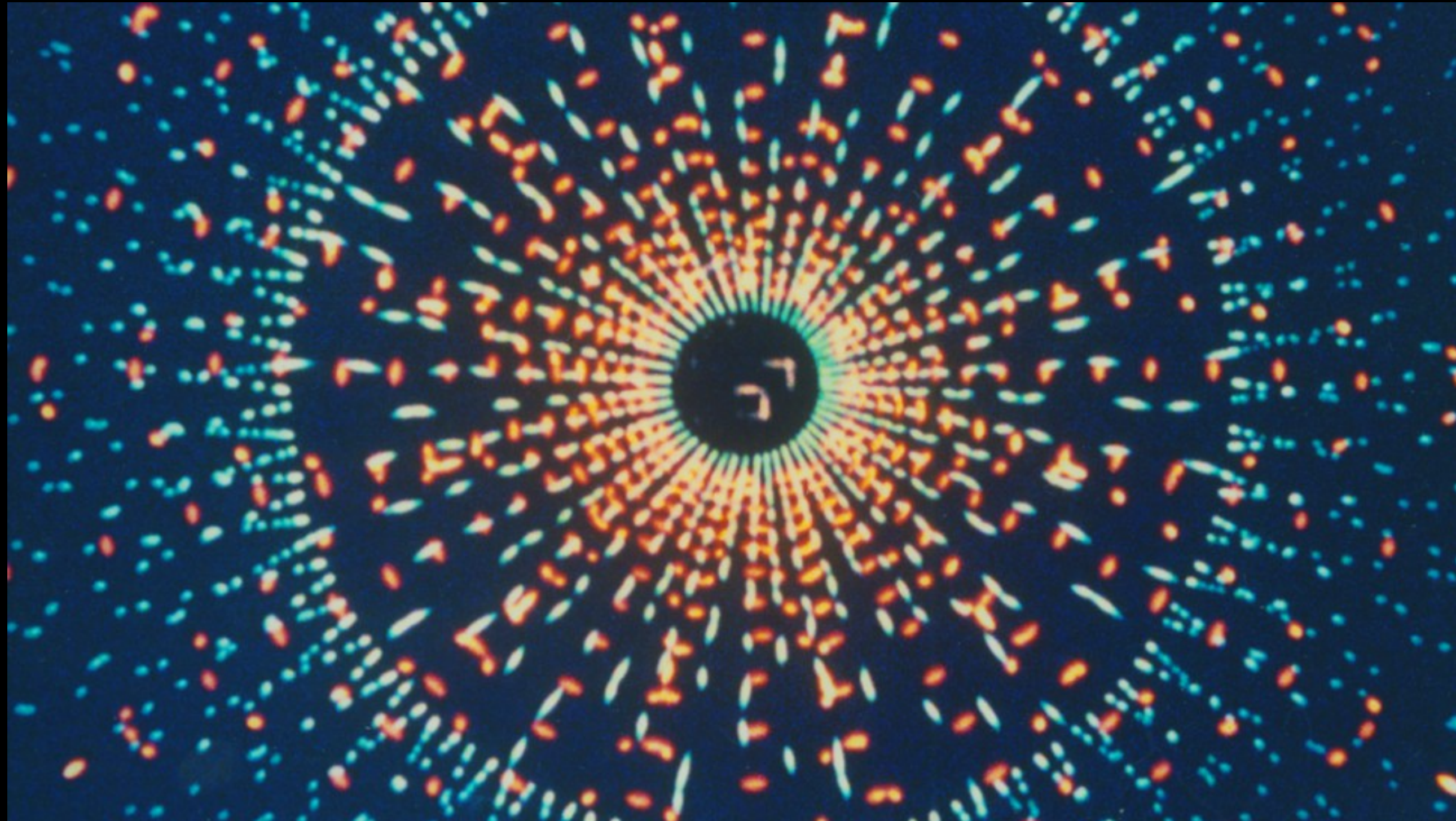
John Whitney Sr. + Saul Bass "Vertigo" (1958)



John Whitney (1950's -60's)



Vera Molnar (1960's)



Jordan Belson (1960's -70's)

3408



<https://www.youtube.com/watch?v=oQMD7oufO4s>



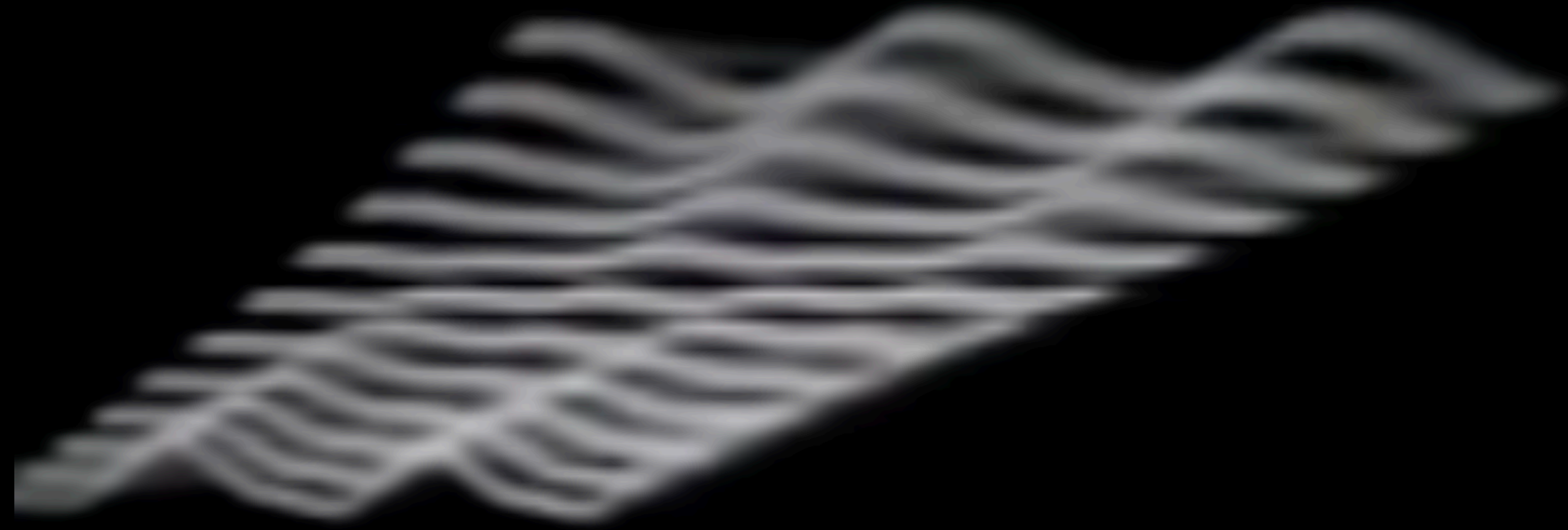
https://www.youtube.com/watch?v=sebqkS_EKBE

instant animation

The diagram illustrates the process of 'instant animation' for the 'RUTT ETRA' logo. It consists of four stages arranged in a 2x2 grid, connected by arrows:

- original**: The logo 'RUTT ETRA' in a simple, clean font.
- positioning**: The logo 'RUTT ETRA' with a small square at the end of the 'A'.
- shaping**: The logo 'RUTT ETRA' with a wavy, ribbon-like effect at the end of the 'A'.
- animation**: The logo 'RUTT ETRA' with a wavy, ribbon-like effect at the end of the 'A', appearing to move or vibrate.

RUTT ELECTROPHYSICS
21-29 West Fourth Street, New York, N.Y. 10012
Telephone 212-982-8300



<https://www.vasulka.org/archive/Artists2/Etra,Bill/general.pdf>

<https://www.youtube.com/watch?v=EZQiHuTbnes&t=138s>

Rutt-Etra-1zer

This demo emulates the Rutt-Etra video synthesizer.
More info.

Controls

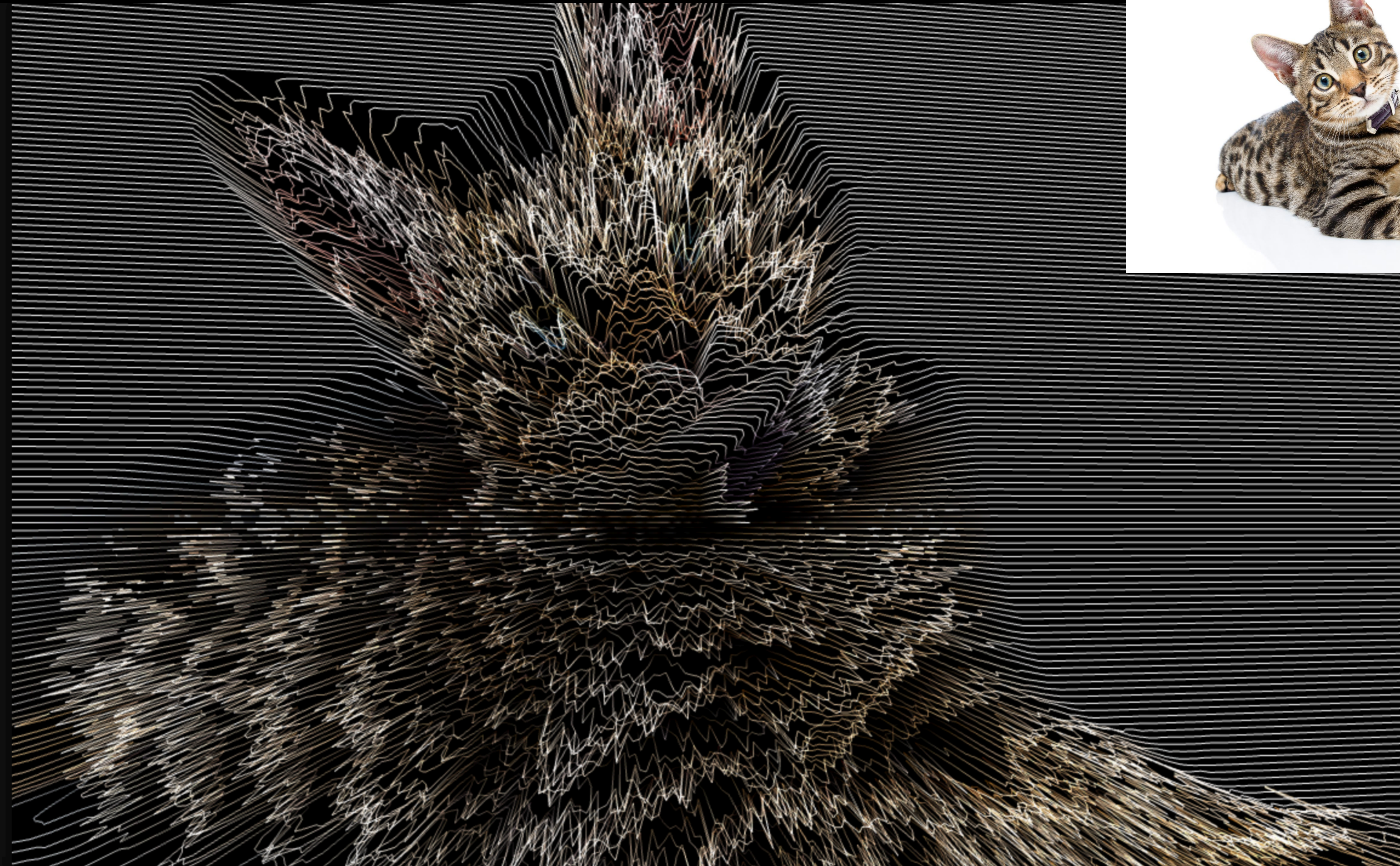
- Drop an image, or load a sample image.
- Click and drag to rotate.
- Mousewheel to scale.
- 'S' key to save image.

Options

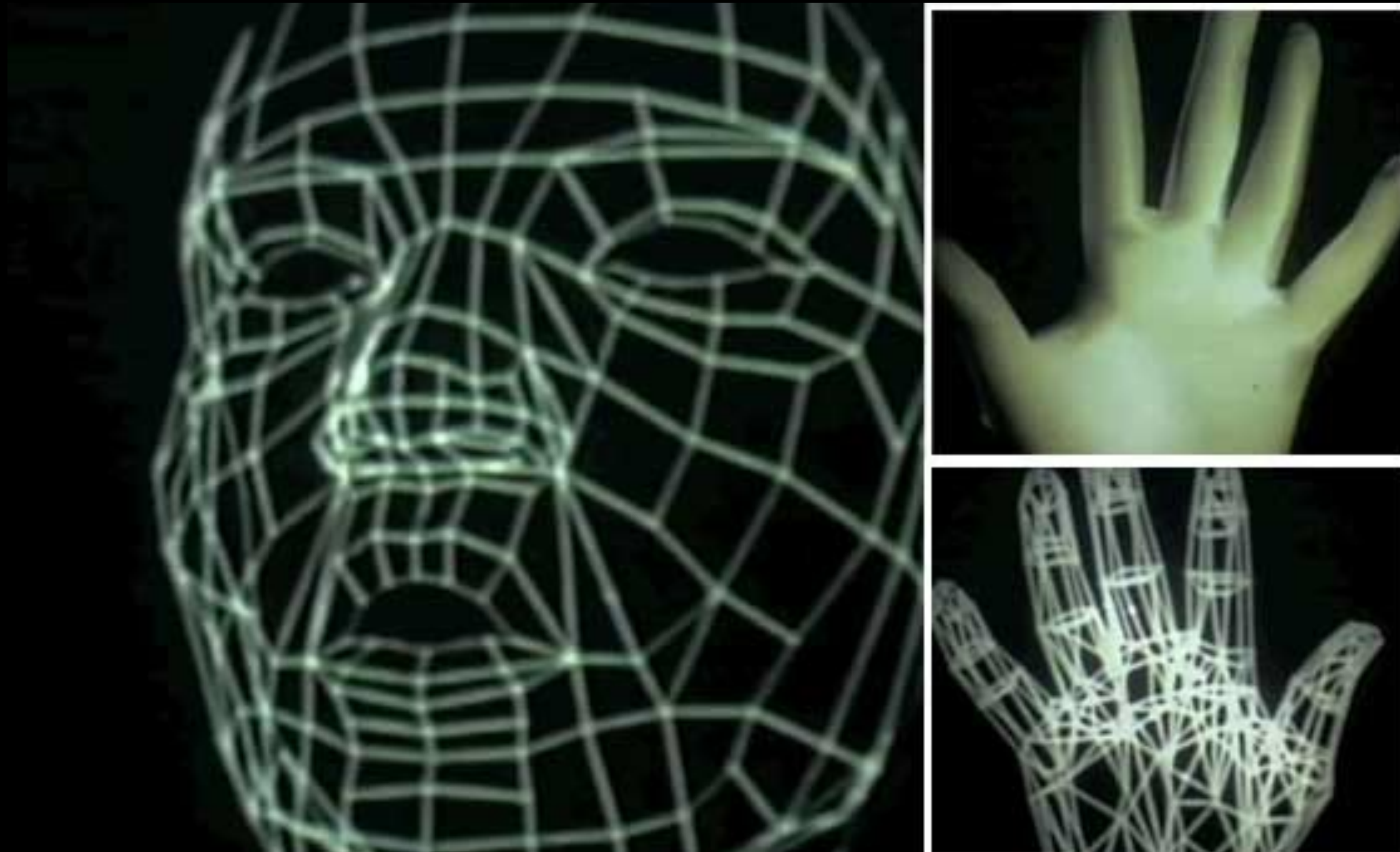
Scale	<input type="range"/>	2
Line Separation	<input type="range"/>	9
Line Thickness	<input type="range"/>	9.9
Max Line Depth	<input type="range"/>	153
Brightness	<input type="range"/>	0.9
Stage Size	<input type="range"/>	1
Load Image		
Save Image		
Close Controls		

FPS

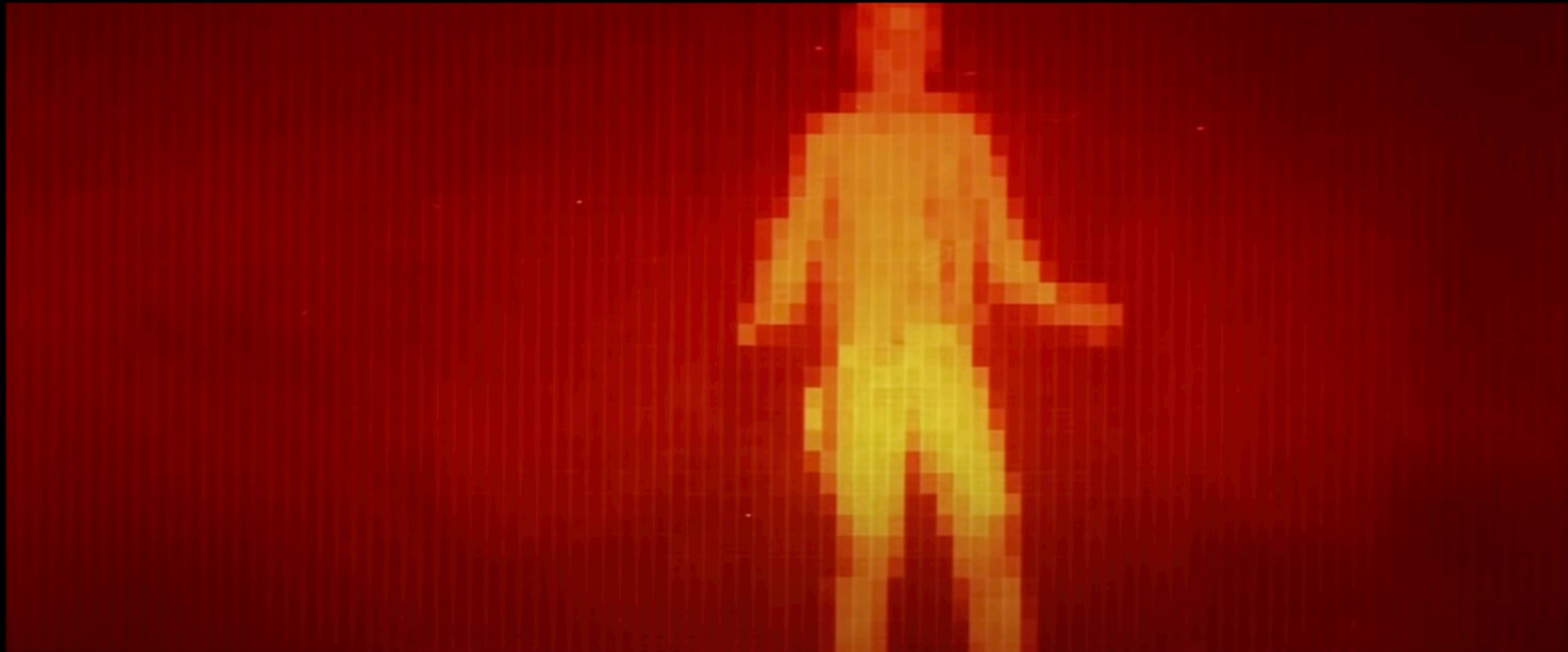
60 FPS (52-62)



<https://airtightinteractive.com/demos/js/ruttetra/>



Ed Catmull (1972)



<https://www.youtube.com/watch?v=nILKFlpOzi0>



ILM (1975)



<https://www.youtube.com/watch?v=578Xm6bgMdQ>



<https://vimeo.com/212875761>

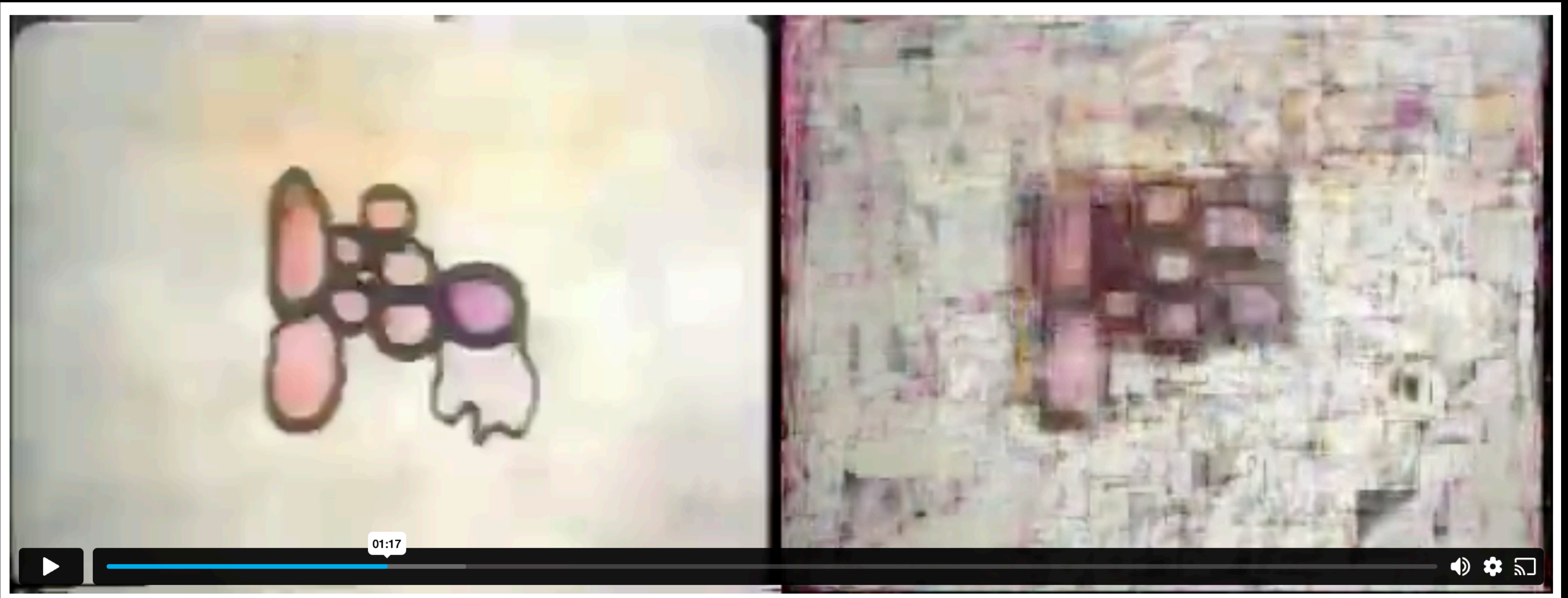


Toy Story (1995)

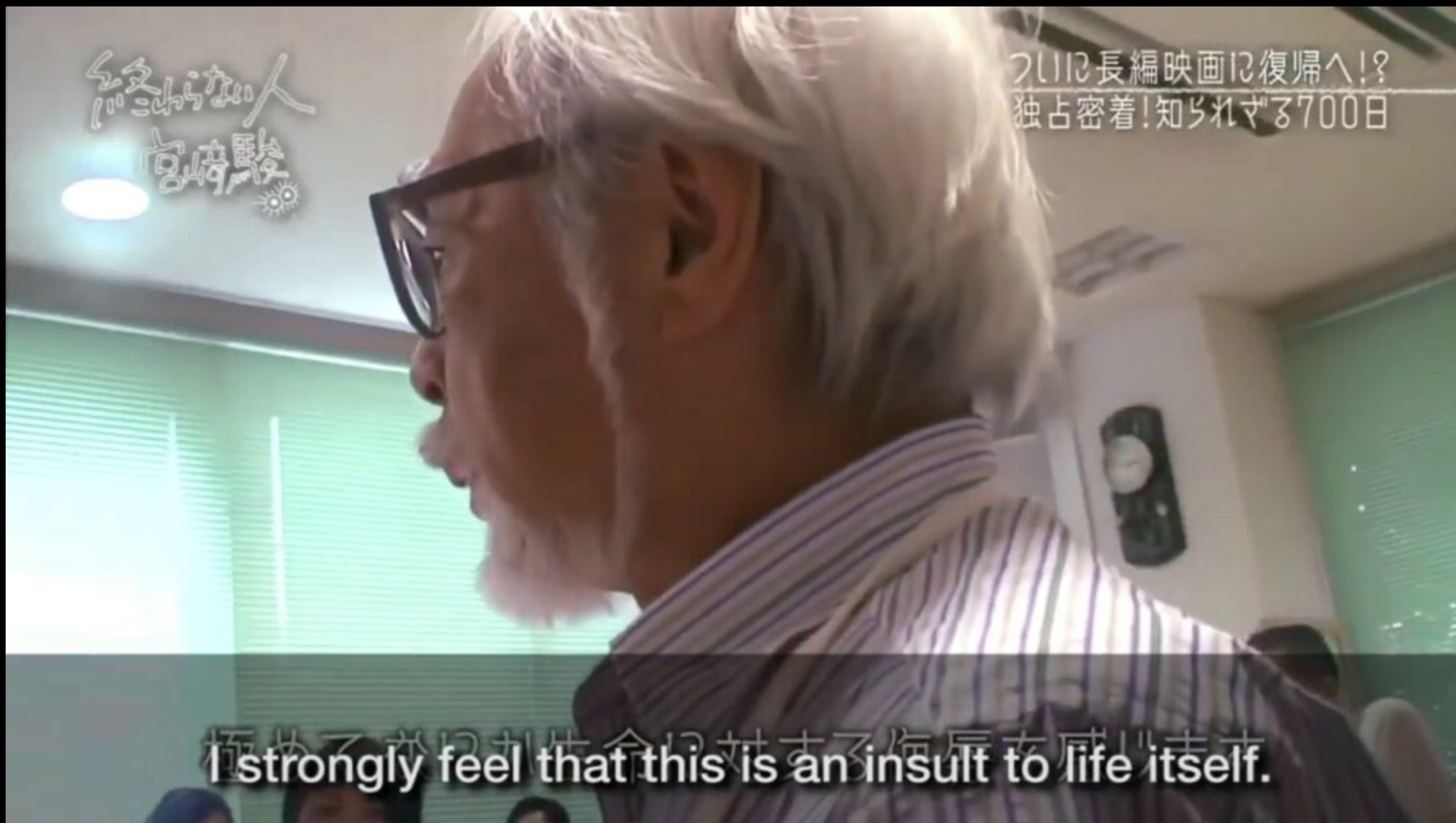


RJD2 - 1976

<https://www.youtube.com/watch?v=Lp-xN-o6W90>



<https://pkmital.com/home/works/early-visual-synthesis-works/>



<https://www.youtube.com/watch?v=ngZ0K3lWKRc>



“Sunspring” <https://www.youtube.com/watch?v=LY7x2Ihqjmc>

The Frost

DALL-E 2 generated movie, The Frost, by Waymark



2:13

/

12:55

1x



<https://www.technologyreview.com/2023/06/01/1073858/surreal-ai-generative-video-changing-film/>

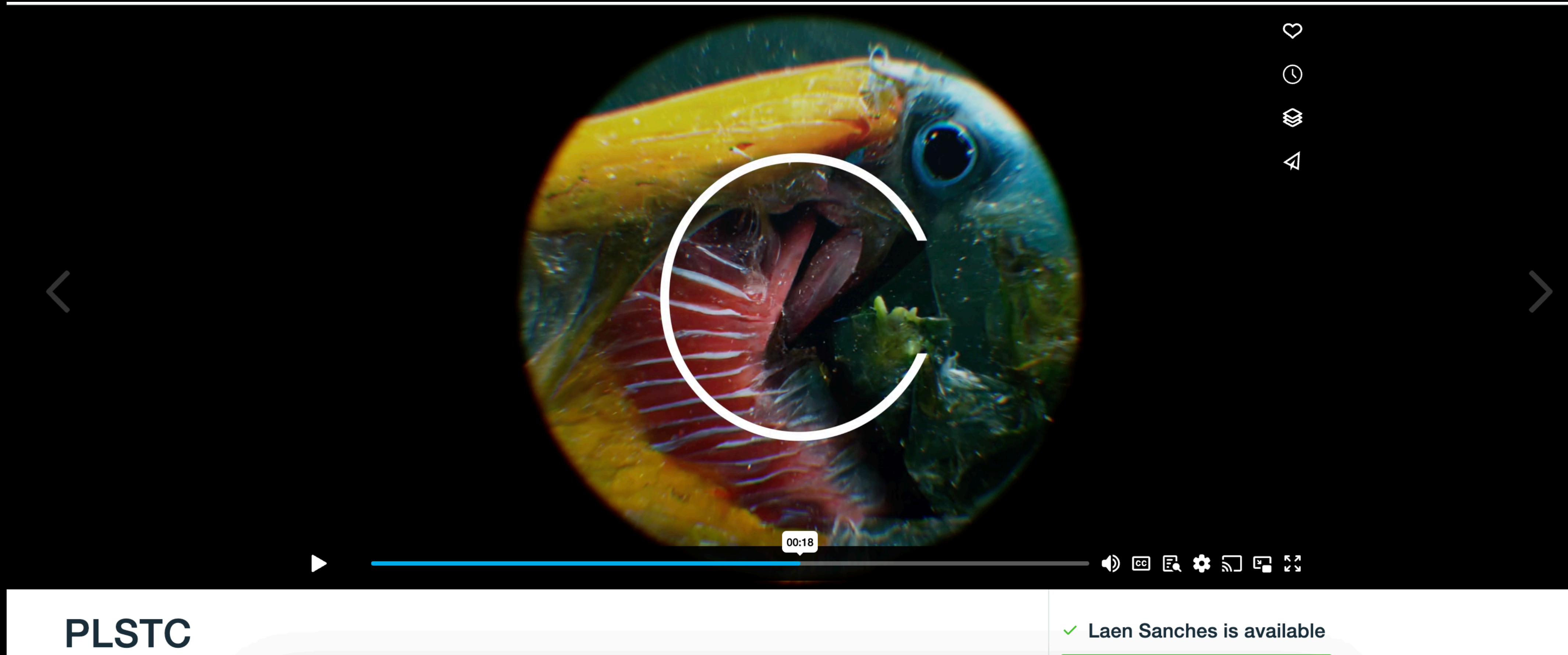


THANK YOU FOR NOT ANSWERING

✓ Paul Trillo is available

<https://vimeo.com/821101511>

<https://www.newyorker.com/culture/screening-room/an-ai-generated-film-depicts-human-loneliness-in-thank-you-for-not-answering>



00:18

PLSTC

✓ Laen Sanches is available

<https://vimeo.com/723429393>

Title	Filmmaker	Award
▶ Generation	Riccardo Fusetti	Grand Prix
▶ Checkpoint	Áron Filkey and Joss Fong	Gold
▶ Given Again	Jake Oleson	Silver
▶ Original Voice	Jordan Rosenbloom	Honoree
▶ PLSTC	Laen Sanches	Honoree
▶ Landscape	Kyle Goodrich	Merit
▶ I want 1000 Rabbits	Shan He	Merit
▶ AI ARTIST	Jessey Nelson and Dani Barker	Merit

<https://aiff.runwayml.com/2023#winner>

The 2nd
Annual
International

AI FILM FESTIVAL



FAQ

AIFF 2023 ↗

SUBMIT YOUR FILM

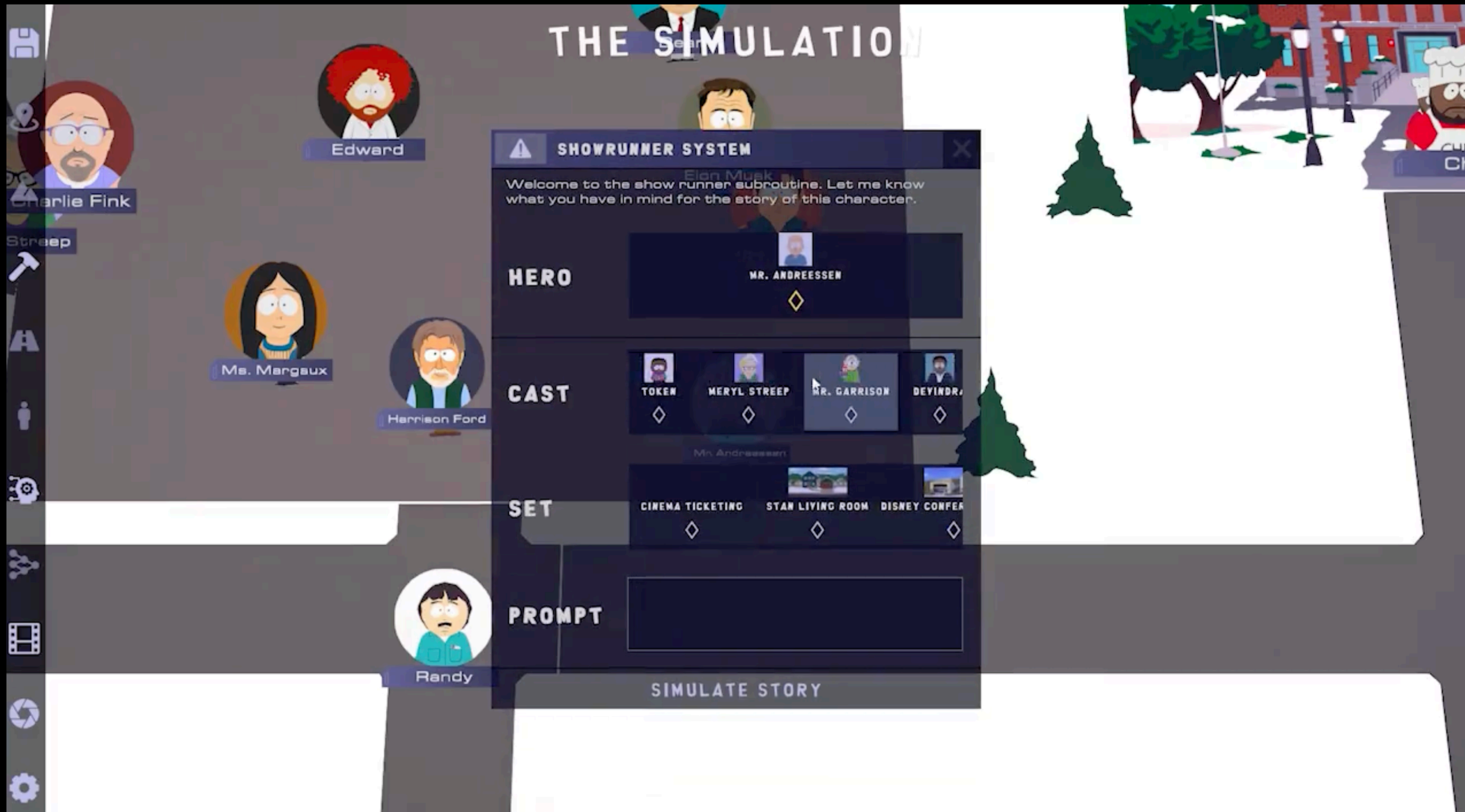
PRESENTING PARTNERS



AIFF 2023 Grand Prix

"Generation"

<https://aiff.runwayml.com/>



“The Simulation” - SouthPark - <https://twitter.com/fablesimulation/status/1681352904152850437?lang=en>

LAB

TEXT TO VIDEO
IMAGE TO VIDEO
VIDEO TO VIDEO



Gen-1: The Next Step Forward for Generative AI

Use words and images to generate new videos out of existing ones.

[↗ Try Gen-1 in Runway](#)

[↗ Try Gen-1 for iOS](#)

[▶ Gen-1 Explained](#)

[📄 Paper](#)

<https://research.runwayml.com/gen1>

Computer Science > Computer Vision and Pattern Recognition

[Submitted on 29 May 2022]

CogVideo: Large-scale Pretraining for Text-to-Video Generation via Transformers

Wenyi Hong, Ming Ding, Wendi Zheng, Xinghan Liu, Jie Tang

Large-scale pretrained transformers have created milestones in text (GPT-3) and text-to-image (DALL-E and CogView) generation. Its application to video generation is still facing many challenges: The potential huge computation cost makes the training from scratch unaffordable; The scarcity and weak relevance of text-video datasets hinder the model understanding complex movement semantics. In this work, we present 9B-parameter transformer CogVideo, trained by inheriting a pretrained text-to-image model, CogView2. We also propose multi-frame-rate hierarchical training strategy to better align text and video clips. As (probably) the first open-source large-scale pretrained text-to-video model, CogVideo outperforms all publicly available models at a large margin in machine and human evaluations.

Subjects: **Computer Vision and Pattern Recognition (cs.CV)**; Computation and Language (cs.CL); Machine Learning (cs.LG)

Cite as: [arXiv:2205.15868 \[cs.CV\]](https://arxiv.org/abs/2205.15868)
 (or [arXiv:2205.15868v1 \[cs.CV\]](https://arxiv.org/abs/2205.15868v1) for this version)
<https://doi.org/10.48550/arXiv.2205.15868>

Submission history
 From: Ming Ding [[view email](#)]
 [v1] Sun, 29 May 2022 19:02:15 UTC (37,711 KB)

Bibliographic Tools Code, Data, Media Demos Related Papers About arXivLabs

<https://arxiv.org/abs/2205.15868>

Text to Video Samples - CogVideo by Tsinghua University

<https://www.youtube.com/watch?v=90-XgkXcP3o>

THUDM / CogVideo Public

Code Issues 9 Pull requests 2 Actions Projects Security Insights

main 1 branch 0 tags Go to file Code


wenyihong Update requirements.txt	9000d1b on Jun 9	24 commits
assets	change to png	last year
models	Release code	last year
paper	add paper	last year
scripts	Release code	last year
sr_pipeline	Release code	last year
.gitignore	Release code	last year
Dockerfile	updated docker file and added script to instsall needed package pos...	last year
LICENSE	Create LICENSE	last year
Model_License	Create Model_License	10 months ago
README.md	Update demo url	4 months ago
build_image.sh	added Docker support	last year

About
 Text-to-video generation. The repo for ICLR2023 paper "CogVideo: Large-scale Pretraining for Text-to-Video Generation via Transformers"

Readme
 Apache-2.0 license
 Activity
 3.2k stars
 99 watching
 330 forks
 Report repository

Releases
 No releases published

<https://github.com/THUDM/CogVideo>

 **Breanna**
1 member

+ Invite Collaborators

Home

Watch **NEW**

VIDEOS

- Generate videos
- Edit videos
- Edit audio & subtitles

IMAGES

- Generate images
- Edit images

MORE

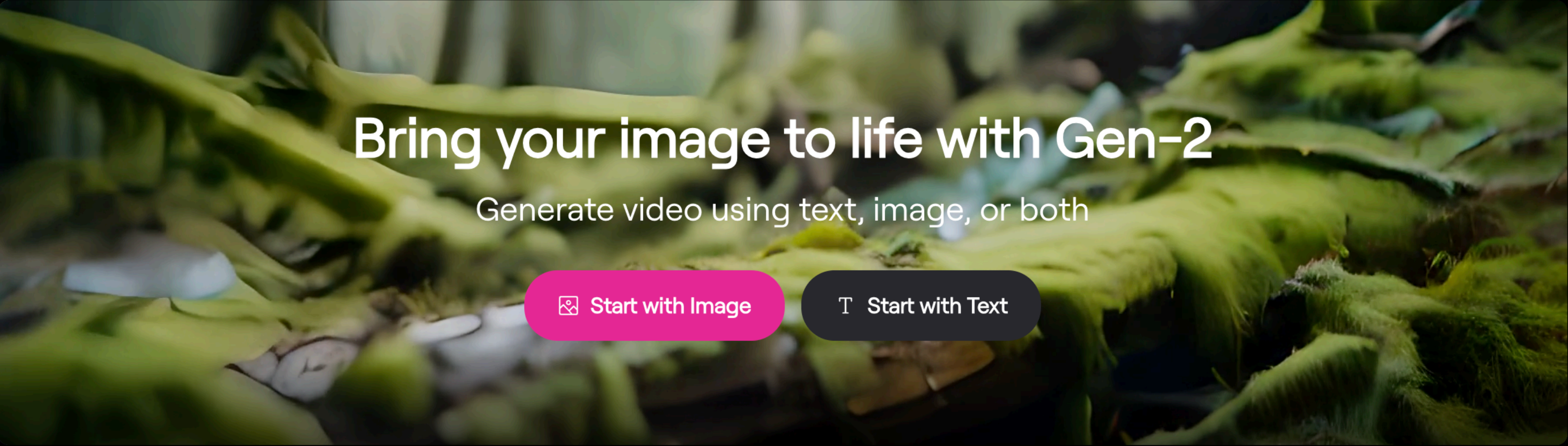
- 3D
- AI Training
- Projects
- Shared with me
- Assets

Free Plan ⓘ

Search for tools, assets and projects





Home



Bring your image to life with Gen-2

Generate video using text, image, or both

 Start with Image

 Start with Text

View Assets
Upload or manage creations.

Try Gen-1
Video to video generation.

Try AI training
1 free training on paid plans.

Tell us about yourself
Personalize your experience.

Popular AI Magic Tools

Favorite tools from the community

view all 

<https://runwayml.com/ai-magic-tools/gen-2/>
<https://app.runwayml.com/>

"cat is in a magical forest looking around at the surroundings"





“Waves at the beach
crashing onto the shore
cinematic”



Zeroscope Text-to-Video

A watermark-free Modelscope-based video model optimized for producing high-quality 16:9 compositions and a smooth video output.

Prompt

Darth Vader is surfing on waves

Submit

Video Output



Share with Community

Duplicate this Space

[Zeroscope v2 576w model](#) by @cerspense - Demo by [Sylvain Filoni](#)

You may also like:

<https://huggingface.co/spaces/fffiloni/zeroscope>

“Big wave surfer cinematic”



alembics / disco-diffusion Public

<> Code Issues 54 Pull requests 17 Actions Projects Security Insights

main 27 branches 1 tag

aletts Merge pull request #176 from Imagoncalo/main 37eb39b on F

archive	Update to Disco v5
docker	Add mssing libraries
.gitignore	Update .gitignore
Disco_Diffusion.ipynb	Corrected open_clip import error, fixes #175
LICENSE	The first official warp/flow release in official Disco Diffusion -- v5.
README.md	Release notes for the MiDaS v3 fix
disco.py	Release notes for the MiDaS v3 fix
disco_utils.py	Adding disco_utils.py
disco_xform_utils.py	Allow 3D animation to run on GPU's other than GPU0

☰ README.md



<https://mgxm.replicate.delivery/e9e07816-6147-4a86-8b27-10058e3b4620/progress.png>

<https://github.com/alembics/disco-diffusion>

Disco Diffusion v5.7 [Now with MiDaS (3D mode) not being broken]

File Edit View Insert Runtime Tools Help

+ Code + Text Copy to Drive

Connect GPU High-RAM

Disco Diffusion v5.7 - Now with MiDaS (3D mode) not being broken

Disco Diffusion - <http://discodiffusion.com/> , <https://github.com/alembics/disco-diffusion>

In case of confusion, Disco is the name of this notebook edit. The diffusion model in use is Katherine Crowson's fine-tuned 512x512 model

For issues, join the [Disco Diffusion Discord](#) or message us on twitter at [@somnai_dreams](#) or [@gandamu_ml](#)

Credits & Changelog

↳ 2 cells hidden

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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY WHETHER IN AN ACTION OF CONTRACT, TORT OR

https://colab.research.google.com/github/alembics/disco-diffusion/blob/main/Disco_Diffusion.ipynb

Animate with AI

Create beautiful animations with the power of generative AI. At Deforum, we're more than just a platform; we're a vibrant, open-source community of innovative developers and talented artists. Dive deep into collaborative projects, share insights, and grow your skills with like-minded individuals. Connect with us on [Discord](#) and embark on an unparalleled AI-driven creative journey.

Open-Source

Deforum seamlessly integrates into the [Automatic Web UI](#). Dive into powerful features like video style transfer with Controlnet, Hybrid Video, 2D/3D motion, frame interpolation, and upscaling. Getting started is simple. Search for "Deforum" in the extension tab or download the [Deforum Web UI Extension](#).

Deforum Auto Extension

Deforum extension for the Automatic Web UI, the most feature-rich implementation of Deforum

Deforum Colab

Original implementation of Deforum Stable Diffusion optimized for Google Colab

Deforum Parseq

Parseq is a parameter sequencer for the UI Deforum Web UI Extension

aiNodes

Simple and easy-to-use Python-based AI image and motion picture generator node engine

<https://deforum.art/>

deforum / deforum_stable_diffusion

Animating prompts with stable diffusion

Deploy

Public 187.4K runs GitHub License

Demo API Examples Versions (e22e7749)

Input

Form Node Python HTTP

max_frames integer (minimum: 100; maximum: 1000)

Number of frames for animation

Default: 100

T animation_prompts string Shift + Return to add a new line

Reset

Run

Output

Preview JSON



https://replicate.com/deforum/deforum_stable_diffusion?prediction=oqtqckrb5peivw4tngvdhrdwb4



"a beautiful forest in Appalachia"



"a beautiful forest by Asher Brown Durand, trending on Artstation"

AnimateDiff Public Watch 64 Fork 404 Star 5.1k

main 3 branches 0 tags Go to file Add file Code

AnyiRao add comfyui ae7c52c 2 weeks ago 66 commits

- __assets__ add lora figures last month
- animatediff update infer script
- config correct shot name

About
 Official implementation of AnimateDiff.
animatediff.github.io/
 Readme

Zoom In		Zoom Out		Zoom Pan Left		Zoom Pan Right	
Tilt Up		Tilt Down		Rolling Anti-Clockwise		Rolling Clockwise	

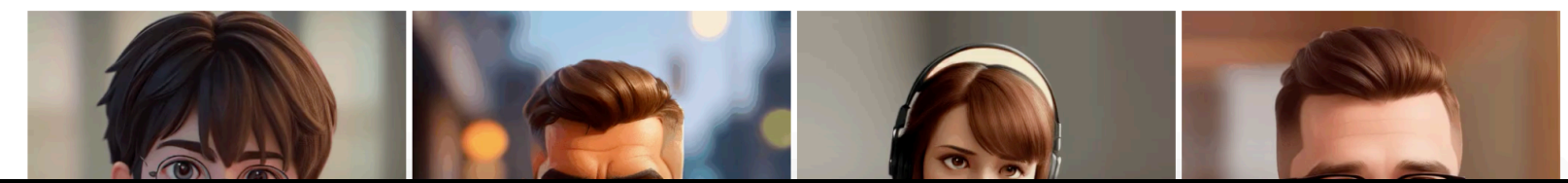
• [2023/09/10] New Motion Module release! `mm_sd_v15_v2.ckpt` was trained on larger resolution & batch size, and gains noticeable quality improvements. Check it out at [Goole Drive](#) / [HuaainaFace](#) / [CivitAI](#) and use it



Model: [majicMIX Realistic](#)



Model: [RCNZ Cartoon](#)



<https://animatediff.github.io/>

<https://github.com/guoyww/animatediff/>



Roope Rainisto
@rainisto



La La Land - A Lovely Night

AI animated version

No manual retouching - feel free to count all the oddities!



0:45

5:15 AM · Oct 13, 2023 · **104.5K** Views



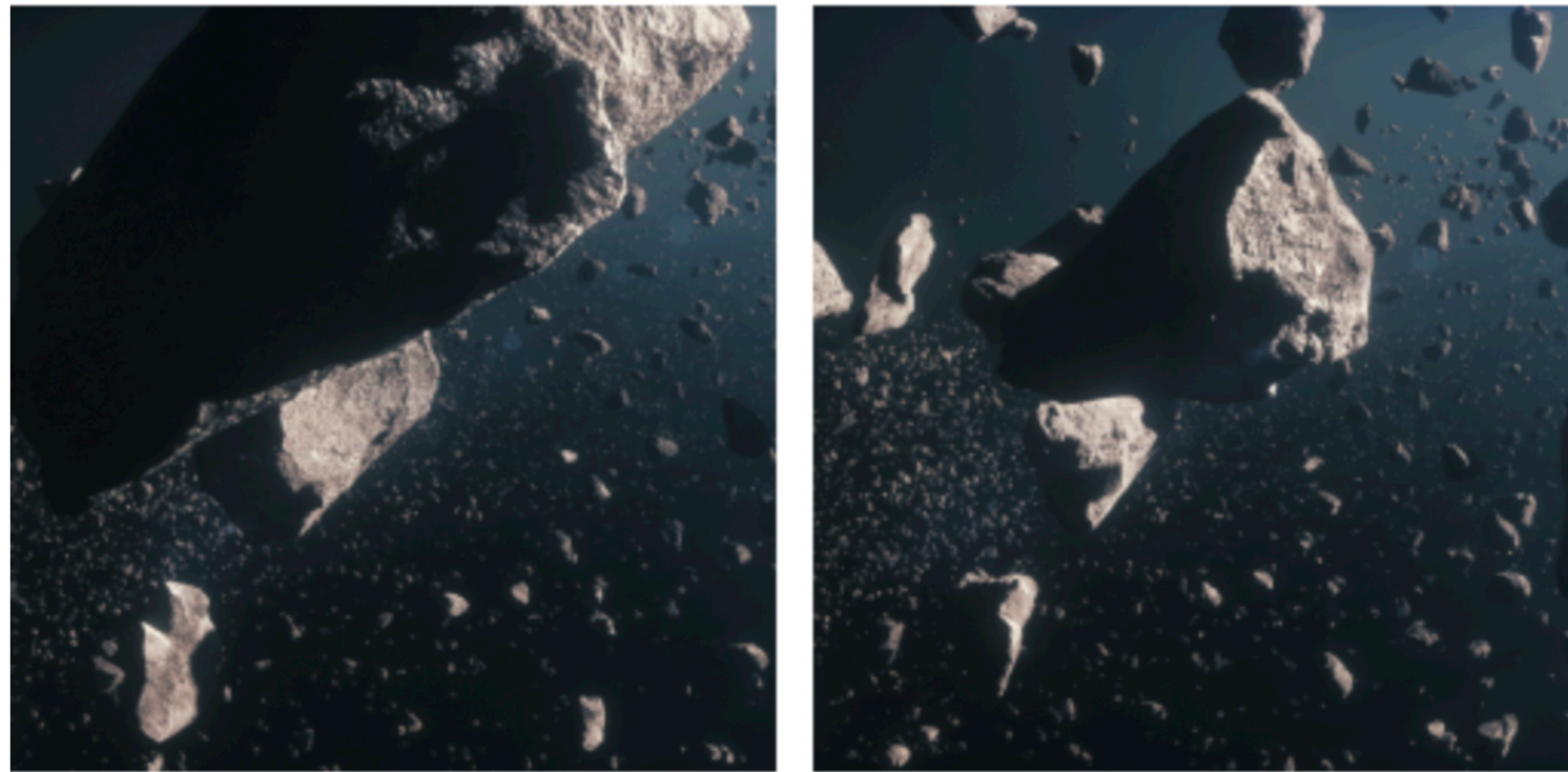
<https://twitter.com/rainisto/status/1712804230401003938>

TEXT TO VIDEO: TOOLS IN DEVELOPMENT



<https://imagen.research.google/video/>
<https://aitestkitchen.withgoogle.com/>

Input images



Make-A-Video output



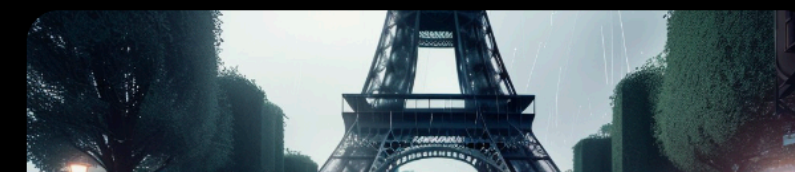
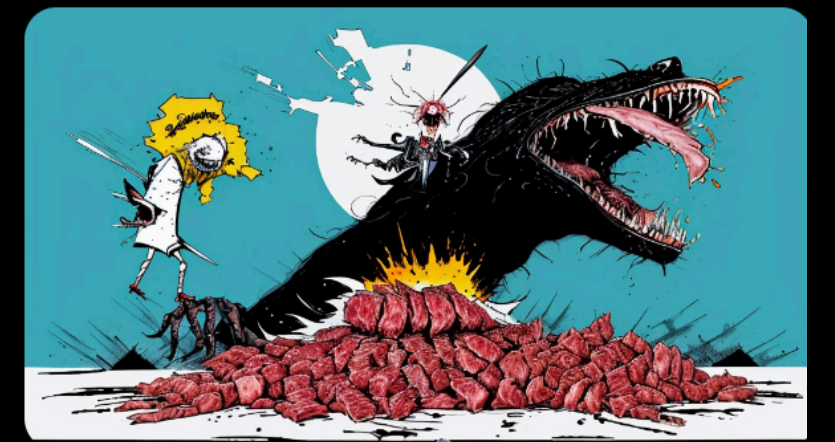
<https://makeavideo.studio/>

ANIMATE IMAGES



Kaiber Core Features

Made for artists, by artists, we are an AI creative lab on a mission to unlock creativity through powerful and intuitive generative audio



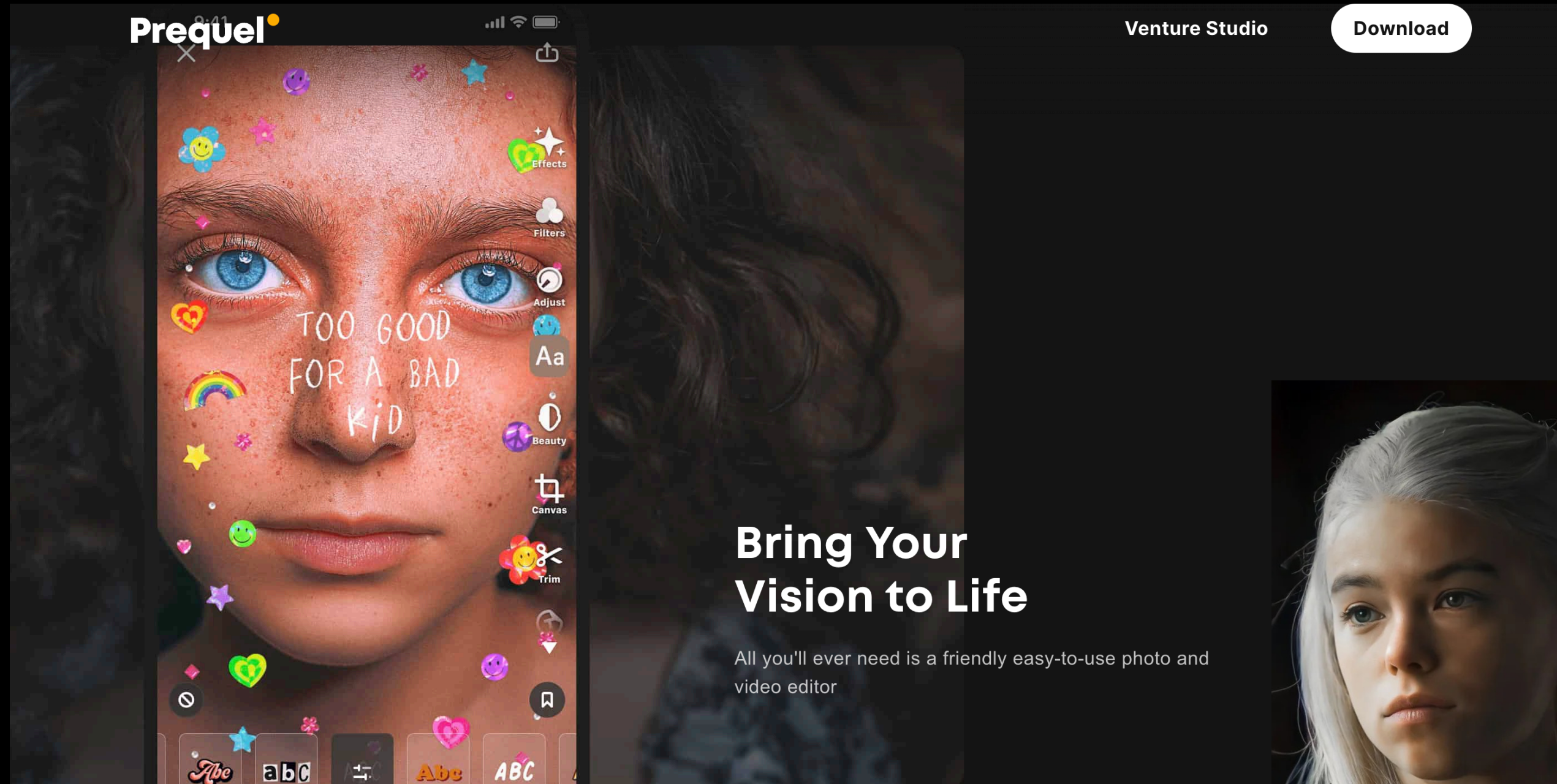
<https://kaiber.ai/>



Lost [Official Music Video] - Linkin Park

https://www.youtube.com/watch?v=7NK_fOkuSVY

STYLIZE / EDIT VIDEO



Bring Your Vision to Life

All you'll ever need is a friendly easy-to-use photo and video editor

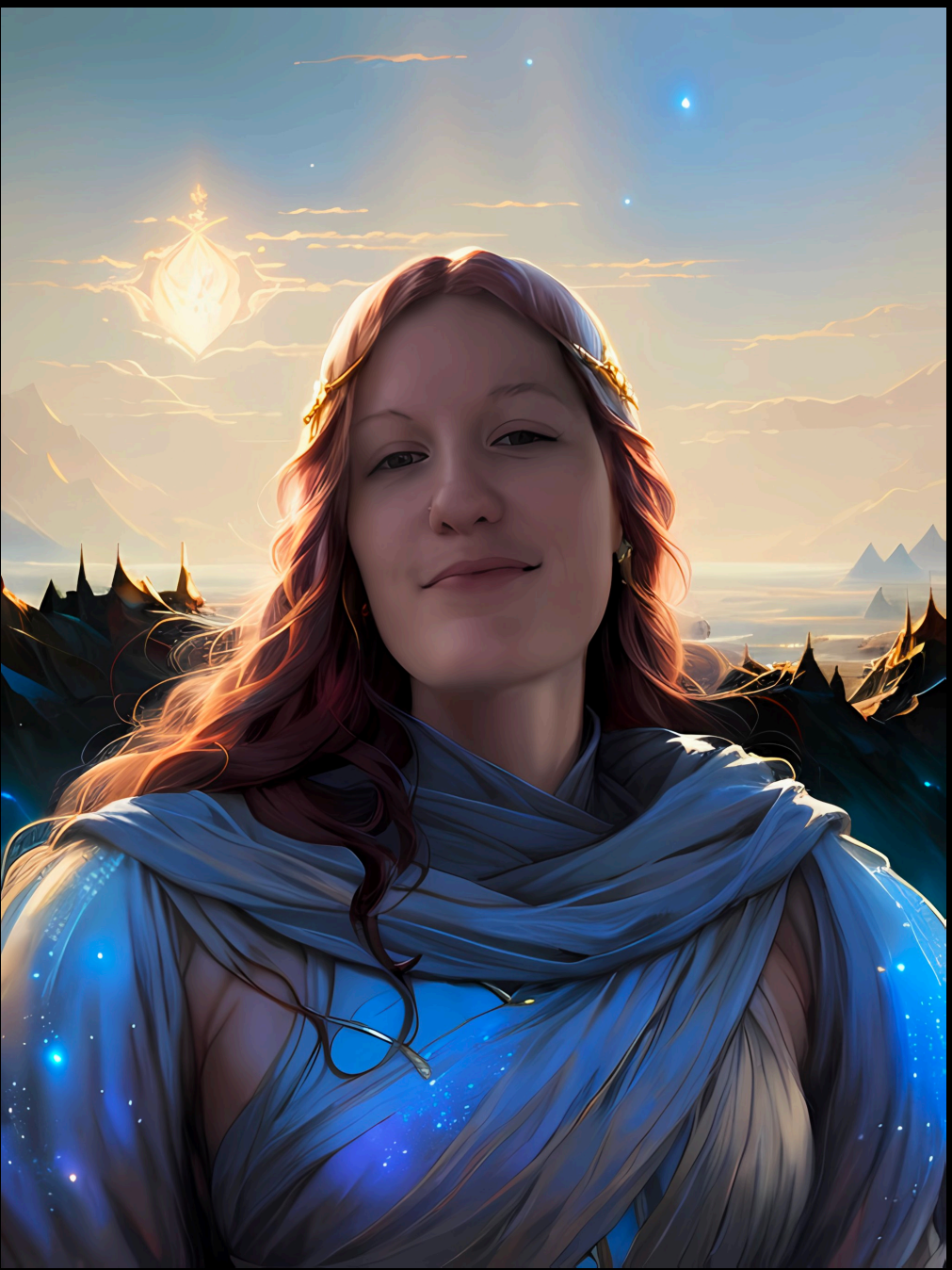
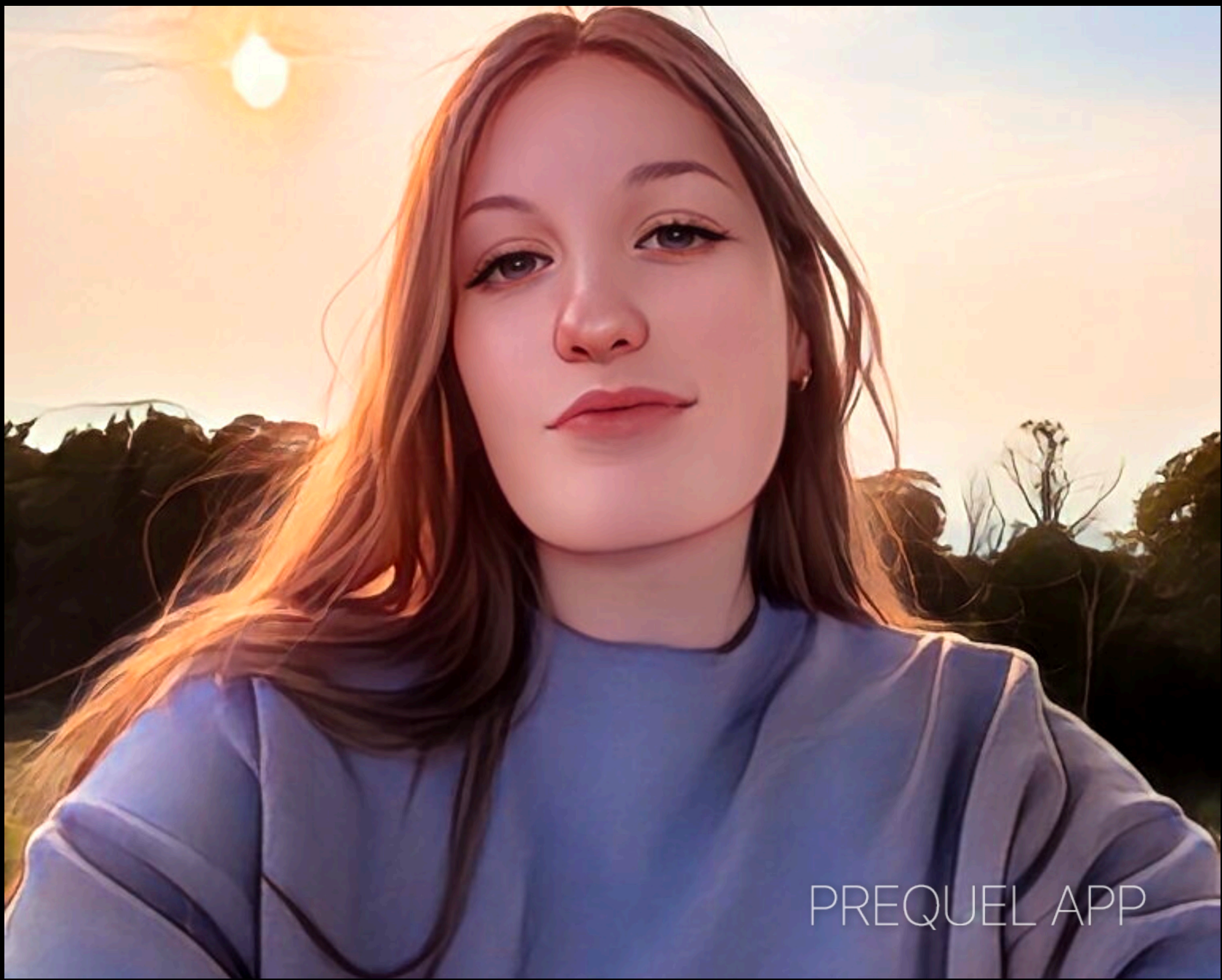
<https://prequel.app/>



<https://preview.redd.it/ov8cclcehrt91.jpg?width=1280&format=pjpg&auto=webp&s=0a506a137742413ade7a8e13051bbf54ce96cc21>



Original photo























Prequel


ANIME CRUSH

Introduction to ShortGPT

ShortGPT is a powerful framework for automating content creation. It simplifies video creation, footage sourcing, voiceover synthesis, and editing tasks.

-  **Automated editing framework:** Streamlines the video creation process with an LLM oriented video editing language.
-  **Scripts and Prompts:** Provides ready-to-use scripts and prompts for various LLM automated editing processes.
-  **Voiceover / Content Creation:** Supports multiple languages including English , Spanish , Arabic , French , Polish , German , Italian , Portuguese , Russian , Mandarin Chinese , Japanese , Hindi , Korean , and way over 30 more languages (with EdgeTTS)
-  **Caption Generation:** Automates the generation of video captions.
-   **Asset Sourcing:** Sources images and video footage from the internet, connecting with the web and Pexels API as necessary.
-  **Memory and persistency:** Ensures long-term persistency of automated editing variables with TinyDB.

<https://github.com/RayVentura/ShortGPT>



Remove background






Image upscaler



AI color correction



Old photo restoration







Photo colorizer



Portrait generator



Resize video



Video upscaler

Remove background

Accurately remove the background of the portrait video and replace it with uploaded image or change the background color.

Try for free →



<https://www.capcut.com/>

+ Create new

- 🏠 Start
- 🕒 Recent drafts
- 🔗 Share history
- 📁 Templates

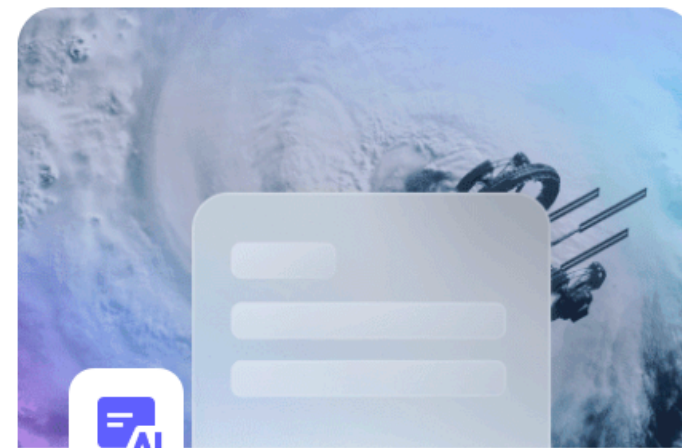
🔧 Magic tools Beta

Spaces

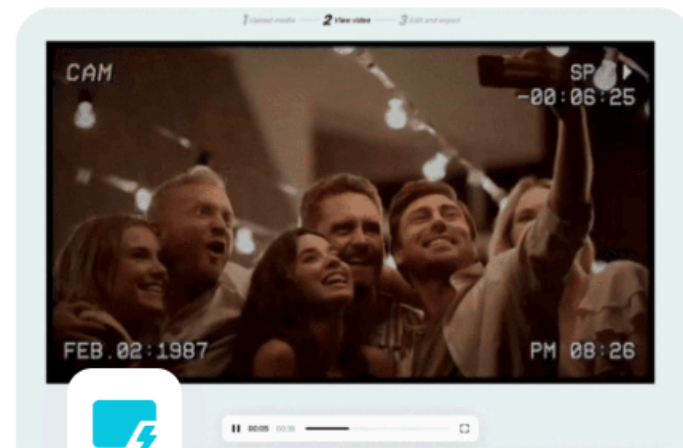
- U user9431041984721'...
- + Create new space

☀️ New features 8
Text to Image & Ima...

Magic tools



Script to video
Generate scripts to create videos in a few clicks.



AutoCut
Automatically create videos with your media in 1 click.

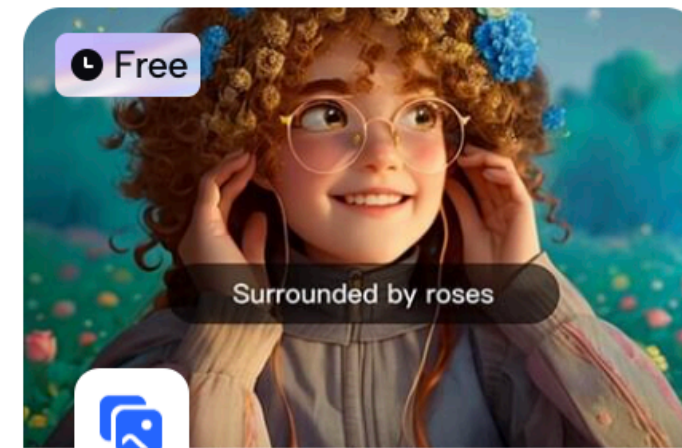
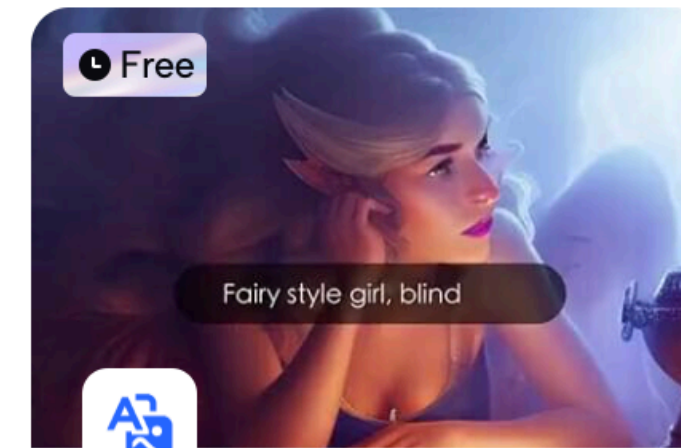
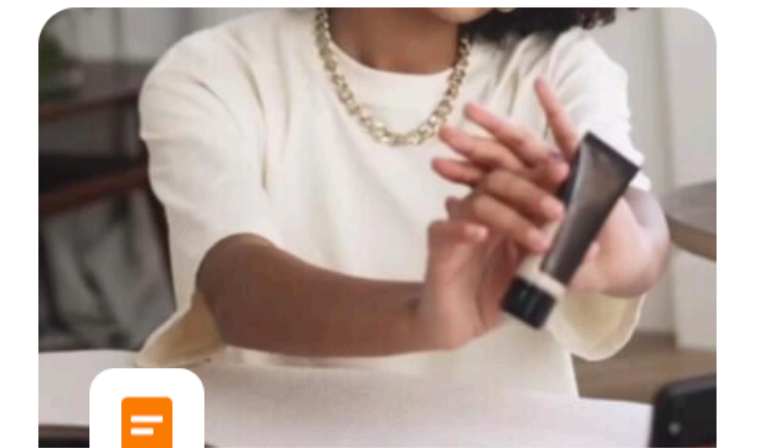


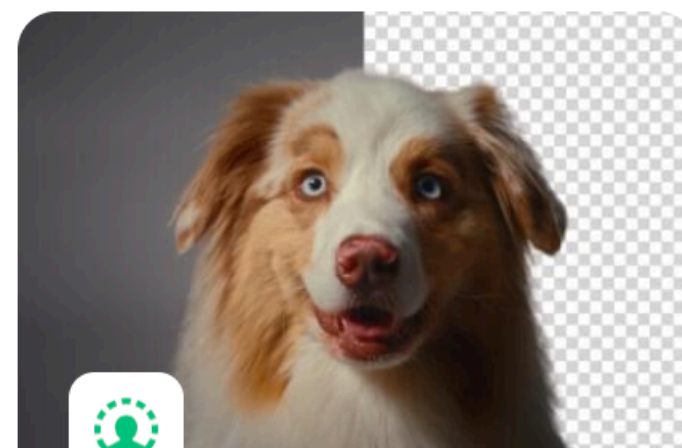
Image to image
Generate images with an image and word prompt.



Text to image
Generate images with word prompts.



Ad script
Generate high-converting TikTok ad scripts.



Remove background
Remove backgrounds in videos and photos.

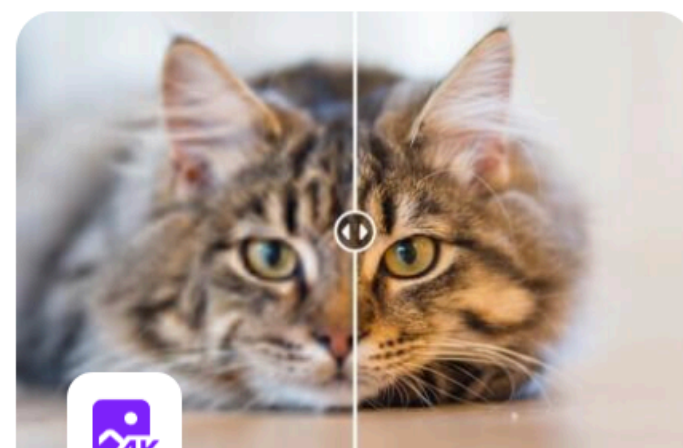
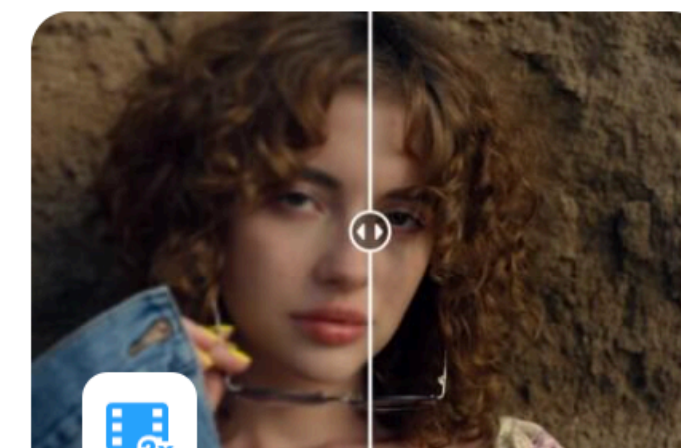


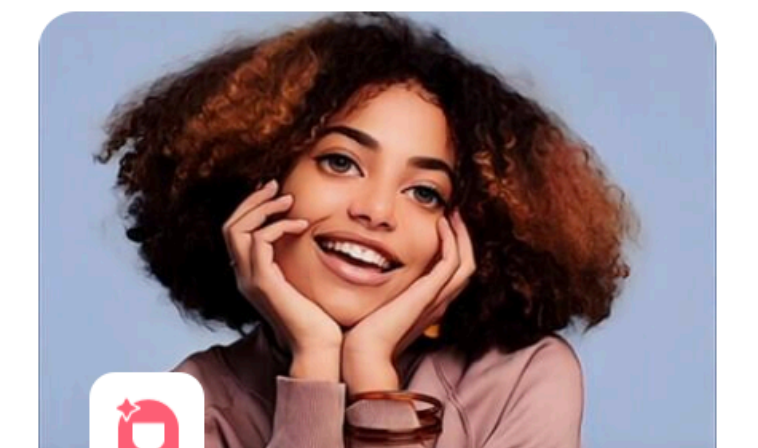
Image upscaler
Upscale images by increasing resolution.



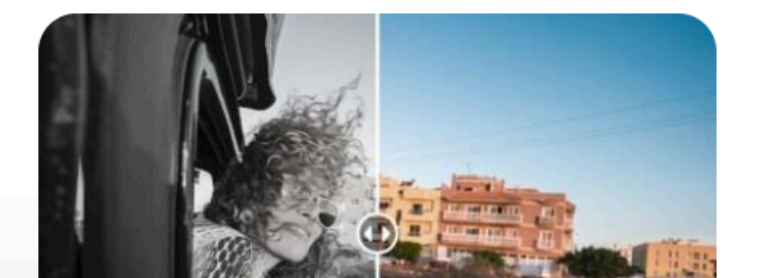
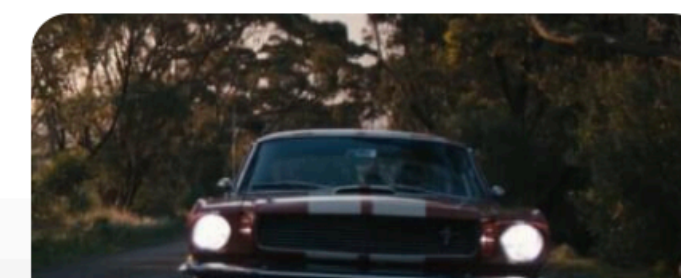
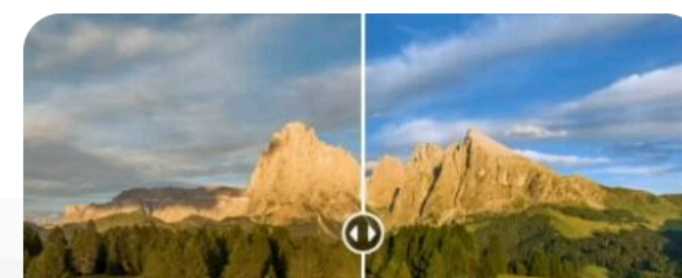
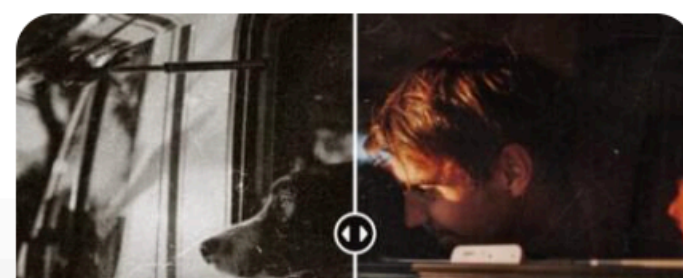
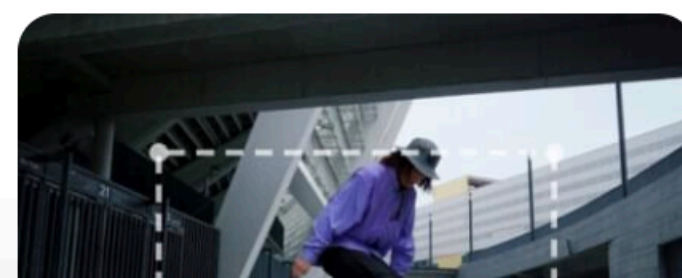
Image style transfer
Convert your images into various styles.



Video upscaler
Increase video resolution to make it clearer without losing it...



Portrait generator
Generate AI portraits in various styles.



ANIMATE TO MUSIC

Parseq v0.1.105

[production] Built 2023-09-19T23:41:21+00:00 (b4cdc17 - all changes)

Dark Mode Hotkeys Tutorial Docs Reference Bugs Code Chat Sign

Doc name: Repulsive hopelessness

REVERT... SHARE... LOAD... NEW... BROWSE...

Last saved: just now

Thank you to our *Oscillator* level supporter: (Your name here? Click to find out more.:)

Support Parseq: Coffee / Patre

Options

BPM: 140 FPS: 20 Final frame: 119 Cadence: 1

- Total duration: 120 frames = 6.0000 seconds = 14.0000 beats
- 1 frame: 0.0500 seconds = 0.1167 beats
- 1 second: 20.0000 frames = 2.3333 beats
- 1 beat: 8.5714 frames = 0.4286 seconds

Lock keyframe & prompt position to: FRAMES SECONDS BEATS

Generate in reverse

Prompts

Use Parseq to manage prompts. + ADD PROMPTS ↔ EVENLY SPACE PROMPTS || REORDER PROMPTS IMPORT PROMPTS

Prompt 1 - All frames OR From: 0 To: 119 Overlap weight: Fixed

Positive prompt 1: A lone (black cat:\${prompt_weight_1}) (white duck:\${prompt_weight_2}) at midday, centered, realistic, photorealism, crisp, natural colors, fine textures, highly detailed, volumetric lighting, studio photography

Negative prompt 1: (black cat:\${prompt_weight_2}) (white duck:\${prompt_weight_1}) watermark, logo, text, signature, copyright, writing, letters, low quality, artefacts, cropped, bad art, poorly drawn, lowres, simple, pixelated, grain, noise, blurry, cartoon, computer game, video game, painting, drawing, sketch, disfigured, deformed, ugly

RE-RENDER Auto-render Auto-upload COPY OUTPUT

Started a new Parseq document.

<https://sd-parseq.web.app/?docId=doc-1af794e2-d7a2-4954-98af-46af787f5db8>

rewbs / sd-parseq (Public)

Code Issues 37 Pull requests 5 Discussions Actions Projects Wiki Security Insights

master 14 branches 105 tags

Automated Version Bump ci: version bump to 0.1.105 b4cdc17 yesterday 520 commits

.github	Create dependabot.yml	3 months ago
public	Improve camera movement preview. Add 'raw' to return rendered JS...	4 months ago
src	Add test for cadence	yesterday
.eslintignore	Ensure build dir with minified js etc.. is excluded from linting	6 months ago
.firebaserc	Fixes, and extend grammar	last year
.gitignore	Improve camera movement preview. Add 'raw' to return rendered JS...	4 months ago
.markdownlint.json	Fix markdown linting errors in README. Update supporter list.	2 months ago
LICENSE	Create LICENSE	last year
README.md	Allow fractional BPM and FPS. Improve off-by-one error on undo (tho...	last month
firebase.json	Fixes, and extend grammar	last year
jest.config.js	Improve camera movement preview. Add 'raw' to return rendered JS...	4 months ago

<https://github.com/rewbs/sd-parseq#what-is-this>

Parseq.example_prompt.influenced.by.audio.pitch.and.amplitude.mp4

Audio-controlled prompt: the amplitude affects the facial expression, and the pitch affects the pastel/vector effect. See the video on Youtube for higher quality and all settings.

COMBINATORIAL TECHNIQUES / EXAMPLES



gerdegotit • Follow

Gz Music • Dancin (Remix)



gerdegotit Hercules pulling up to Olympus like 🏛️💪

Based on a video by @manoletyet

#aiart #generativeart #midjourney #discodiffusion #ai
#machinelearning #abstractart #dance #dancing #surrealis
#darksurrealism #surrealist #experimental #aftereffects
#artificialintelligence

16w



olympics Olympus 🤔. This is very cool. @manoletyet, those are some Olympic level moves.

16w 1,846 likes Reply

— View replies (6)



artistdjwildlife Instead of doing one of these mythological beings that did not exist why don't you do one of prophets that really lived on this earth

16w 43 likes Reply

— View replies (135)



Liked by nu__uh and 4,552,034 others

MAY 25



Add a comment...

Post

<https://www.instagram.com/p/CsreGaqNgMz/?hl=en>



Uncanny Harry AI 
@Uncanny_Harry



Here's a test using a long take with lip-synch in generative AI video. I used [@runwayml](#) to animate a [@midjourney](#) created image. I went for a fixed camera (speed 0) motion 2, all first rolls and extended, I could of improved performance with re-rolls but this is just a quick test. I think the extremes of the generation (start/end) probably aren't useable but I reckon using this method, a few re-rolls and a colour grade you could probably get a good 20-25 seconds take, which is pretty amazing. Sound on to hear the AI voice2voice generation. This is Wav2lip trying a new AI lip-synch with [@HeyGen_Official](#) but the video processing is stuck at 83%!!!!



https://twitter.com/uncanny_harry/status/1701547787895107787?s=46&t=MHjSXuuPGHmWLD4It3ZkFA



Roope Rainisto

@rainisto

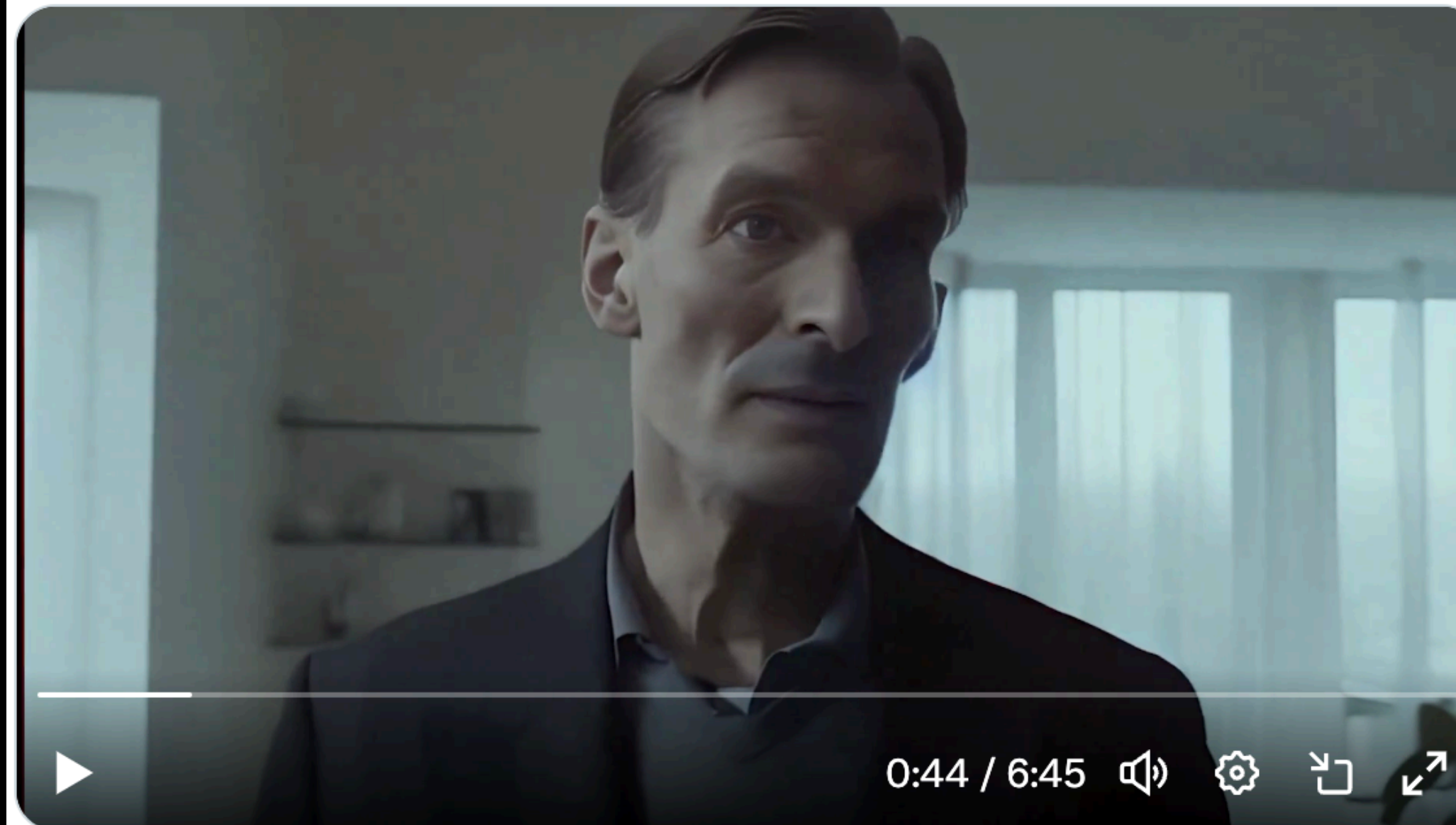


THE METAMORPHOSIS

Modern adaptation of "The Metamorphosis" by Franz Kafka.

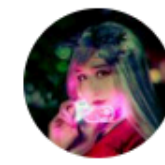
Created using generative AI tools: RunwayML Gen-2, ZeroScope, SDXL, MidJourney, Bark, ElevenLabs, Coqui, wav2lip.

Some thoughts and musings 📖



7:39 AM · Sep 18, 2023 · **24.8K** Views

<https://twitter.com/rainisto/status/1703780912436056150?s=46&t=MHjSXuuPGHmWLD4It3ZkFA>



Aimi Sekiguchi ايمي
@sekiguchiaimi



AI変換ビデオビフォーアフター →

AI generated video before and after.

[#HeyGen](#) [#aigenerated](#)

app.heygen.com/guest?sid=rewa...

[Translate post](#)



1:05 AM · Sep 24, 2023 · **955.8K** Views

<https://twitter.com/sekiguchiaimi/status/1705855926148984915?s=46&t=MHjSXuuPGHmWLD4It3ZkFA>

Generate 3D short films from 2D AI images!

Blender 2.80 interface showing a 3D scene of a desert landscape. The interface includes a top menu bar, a toolbar, a 3D viewport with a camera view, a Properties panel on the right, and a timeline at the bottom. A video player overlay is visible in the bottom right corner, showing a person speaking into a microphone.

<https://www.youtube.com/watch?v=PFybvdKH8hc>

What other composite workflows could you imagine exploring?

ARCHIVAL RESOURCES

Further Approaches

- **Video editing:** These tools use AI to automate certain aspects of the video editing process, such as color correction, audio sync, and effects. Some popular examples include Adobe Premiere Pro, Magisto, and Animoto.
- **Video generation:** These tools use AI to generate videos from scratch, often using voiceovers, text-to-speech, and other techniques to create engaging and informative content. Some popular examples include Lumen5, Wave.video, and Wibbitz.
- **Video recognition:** These tools use computer vision algorithms to detect and track objects within videos. They can be used for a wide range of tasks, including video surveillance, image search, and advertising. Popular examples include Amazon Rekognition, OpenCV, and TensorFlow.
- **Lumen5:** An AI tool that turns blog posts into engaging videos
- **Animoto:** A video creation tool that uses AI to quickly generate polished videos
- **Magisto:** An AI-powered video editing tool that automatically creates professional-looking videos from footage and photos
- **Wibbitz:** A tool that uses AI to create videos by analyzing the text content of articles and turning them into short video summaries
- **VidMob:** An AI-powered video editing platform that matches clients with a team of editors to create professional-quality ads, short videos, and other pieces of video content

HOMework

Homework

- In groups of 2, explore the use of 3+ of the video/animation/moving image generation tools presented in class
- Create videos, artworks, etc.. related to your interests / topic for the course
- This work should be able to be presented as a standalone project, but should ideally contribute towards the development of your final project
- Presentation format is open to student preference, but should be limited to 3-5 minutes