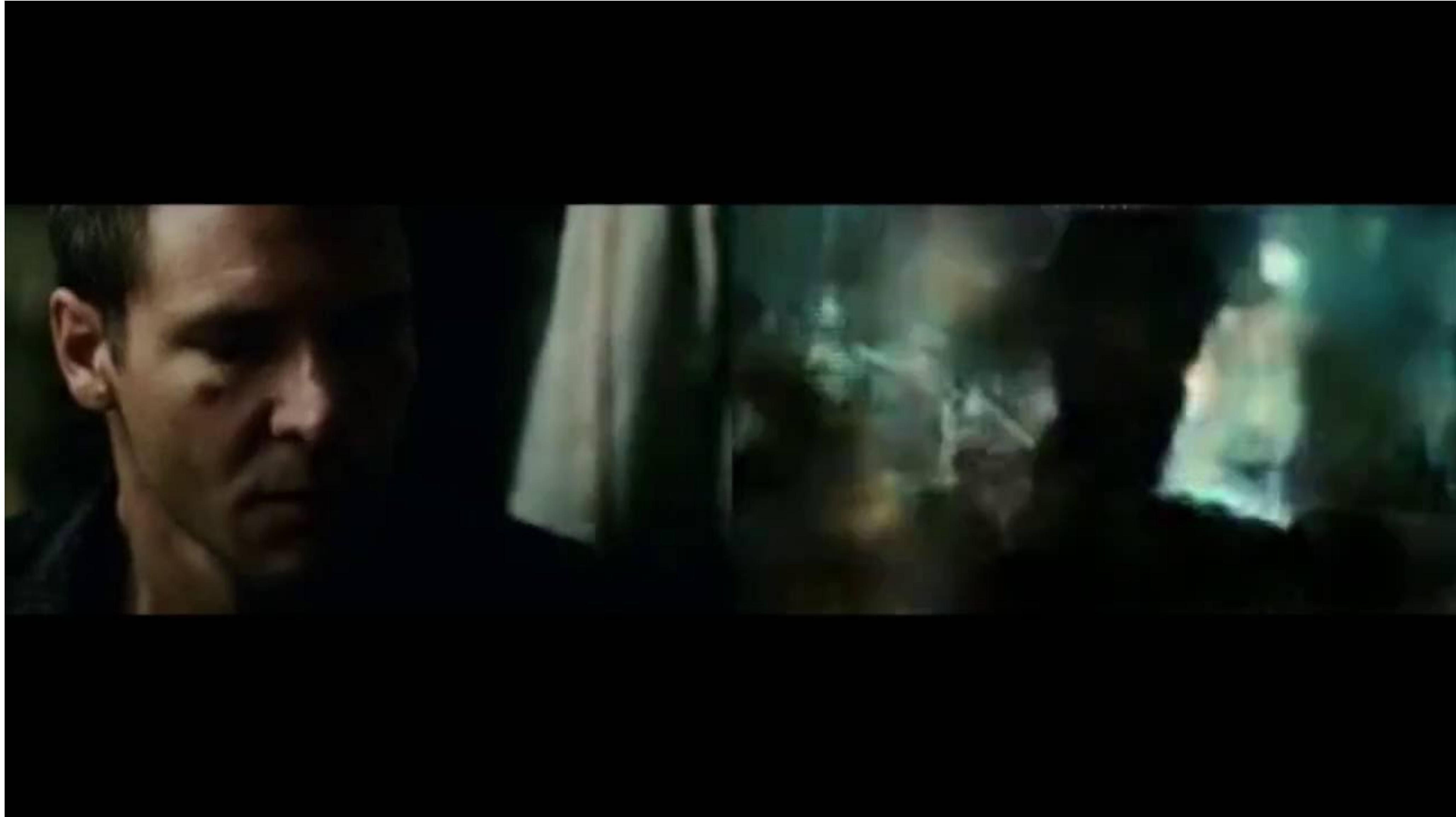


Expanding the generative space

Terence Broad
Arts and AI Hiwar Sessions
May 2025



Blade Runner — Autoencoded (2016)

Dear [vimeo.com](#):

I, the undersigned, CERTIFY UNDER PENALTY OF PERJURY that I am the owner or an agent authorized to act on behalf of the owner of certain intellectual property rights, said owner being named Warner Bros. Entertainment Inc. and/or our affiliated companies, Cartoon Network, Castle Rock Entertainment, DC Comics, Hanna-Barbera Productions, Inc., HBO Independent Productions, Inc., Home Box Office, Inc., New Line Productions, Inc., Turner Entertainment Co. and The CW Network, LLC ("IP Owner").

I have a good faith belief that the materials identified in the addendum attached hereto are not authorized by the above IP Owner, its agent, or the law and therefore infringe the IP Owner's rights. Please act expeditiously to remove or disable access to the material or items claimed to be infringing.

I swear, under penalty of perjury, that the information in the notification is accurate.

I may be contacted at:

David P. Kaplan
Senior Vice President & Intellectual Property Counsel
Worldwide Anti-Piracy Operations
4000 Warner Blvd.
Burbank, CA 91522
[818.954.6283](#) – phone
[818.954.2643](#) – fax

What was located as infringing content:

Blade Runner

<http://vimeo.com/167838700>

<http://vimeo.com/167792183>

Friends

<http://vimeo.com/164596865>

<http://vimeo.com/166772819>

<http://vimeo.com/166750512>

<http://vimeo.com/163885283>

<http://vimeo.com/167567391>

<http://vimeo.com/167570293>

<http://vimeo.com/166046378>

Lucifer

<http://vimeo.com/164910483>

<http://vimeo.com/165318559>

<http://vimeo.com/164667655>

<http://vimeo.com/164257403>

A guy trained a machine to “watch” Blade Runner. Then things got seriously sci-fi.

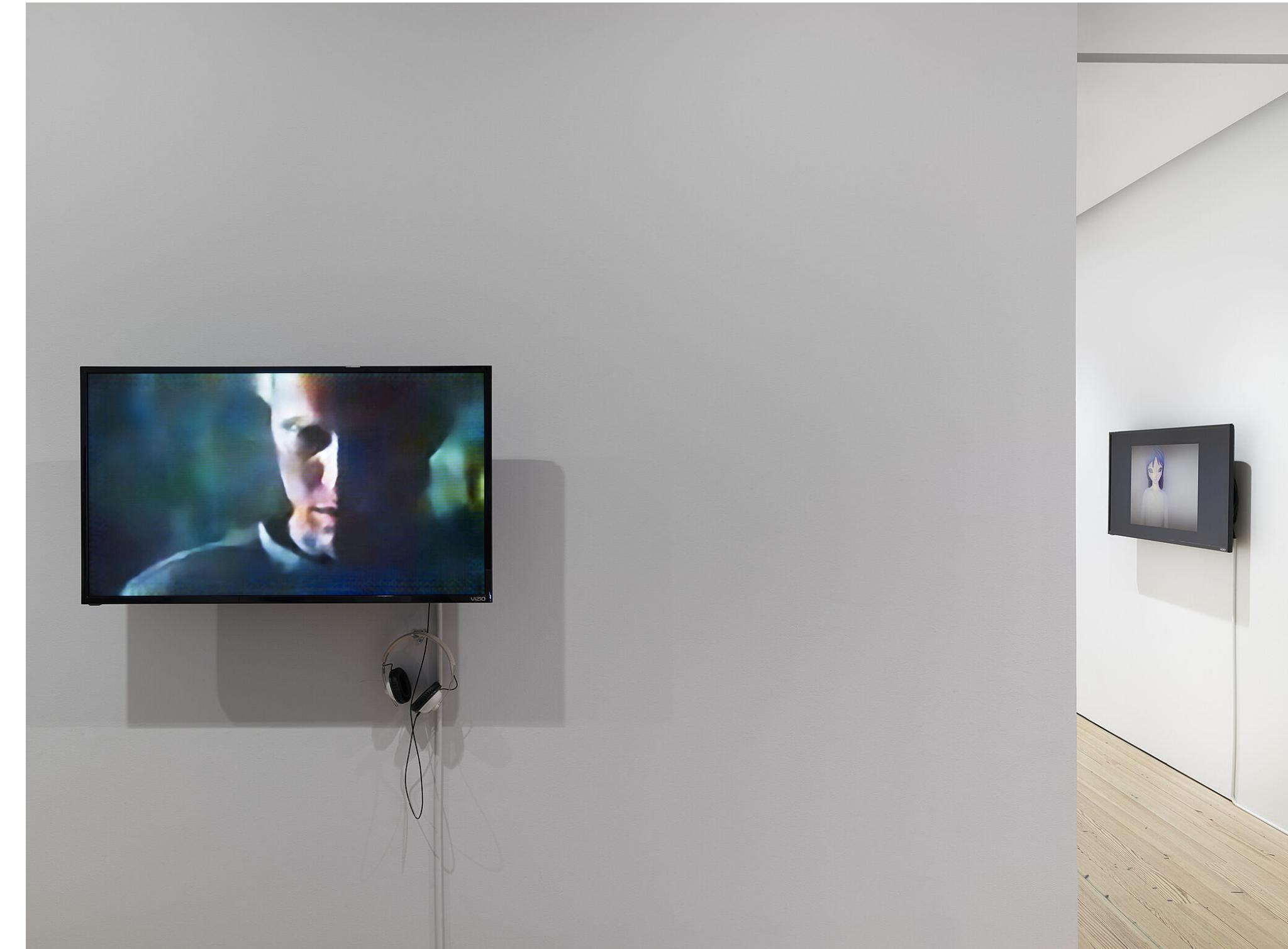
by [Aja Romano](#)

Jun 1, 2016, 5:00 PM GMT+1



Aja Romano writes about pop culture, media, and ethics. Before joining Vox in 2016, they were a staff reporter at the Daily Dot. A 2019 fellow of the National Critics Institute, they're considered an authority on fandom, the internet, and the culture wars.

DMCA takedown notice from Warner Brothers & resulting press coverage



Dreamlands: Immersive Cinema and Art, 1905–2016,
Whitney Museum of American Art, New York
2016-17

"The generated version of Blade Runner lacks [...] visual fidelity [such] that it appears only to be swirling, impressionistic blobs of color. [...] In a situation like this, when all the input data can be assimilated into a single "work" **for the purposes of copyright law**, it seems plausible to deem the model derived from these data **a derivative work**."

Sobel, Benjamin LW. "Artificial Intelligence's Fair Use Crisis." *Colum. JL & Arts* 41 (2017): 45.



“The unlicensed use of creative works for training generative AI is a major, unjust threat to the livelihoods of the people behind those works, and must not be permitted.”

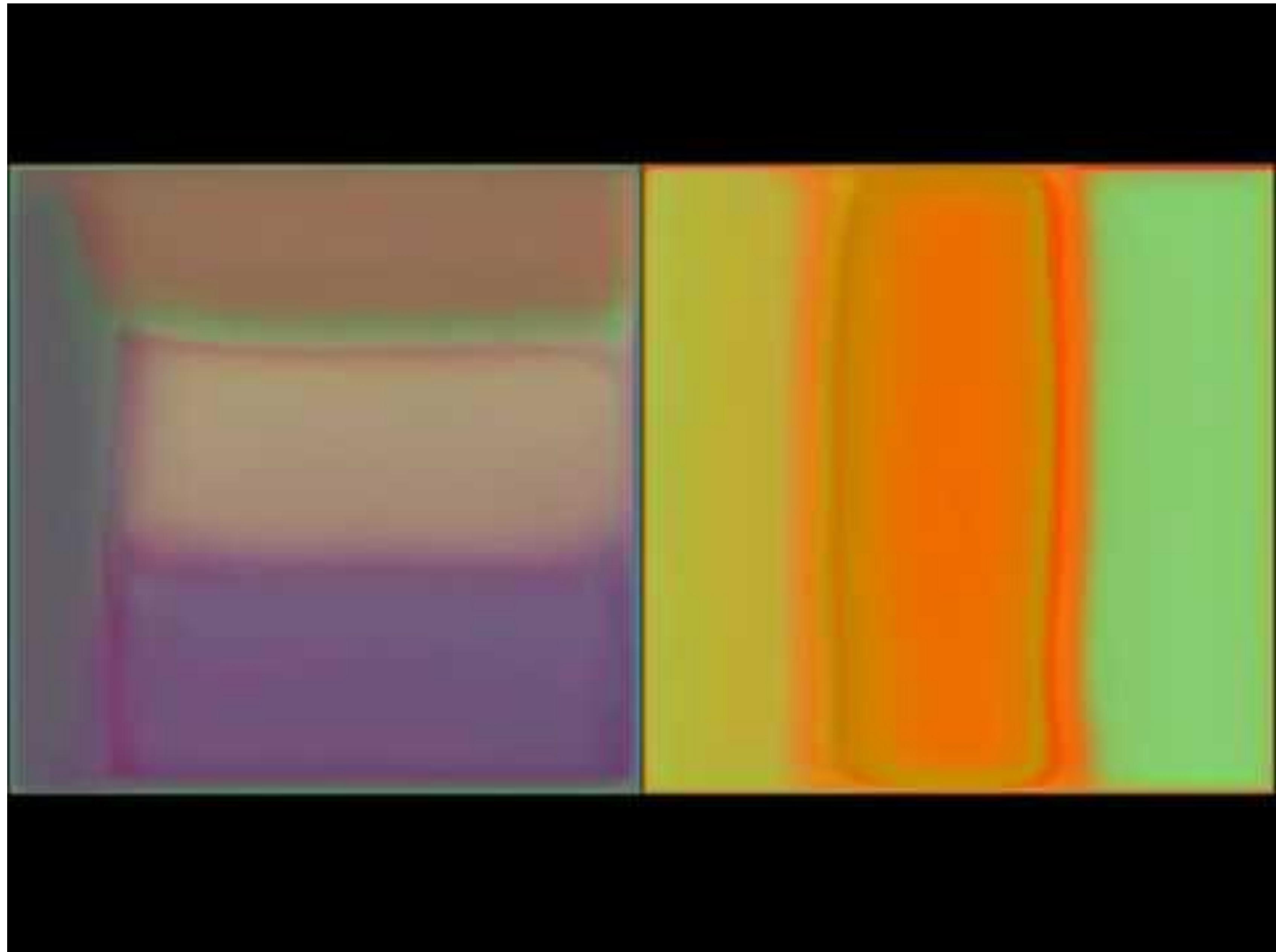
<https://www.aitrainingstatement.org/>

How to train a generative model without imitating data?

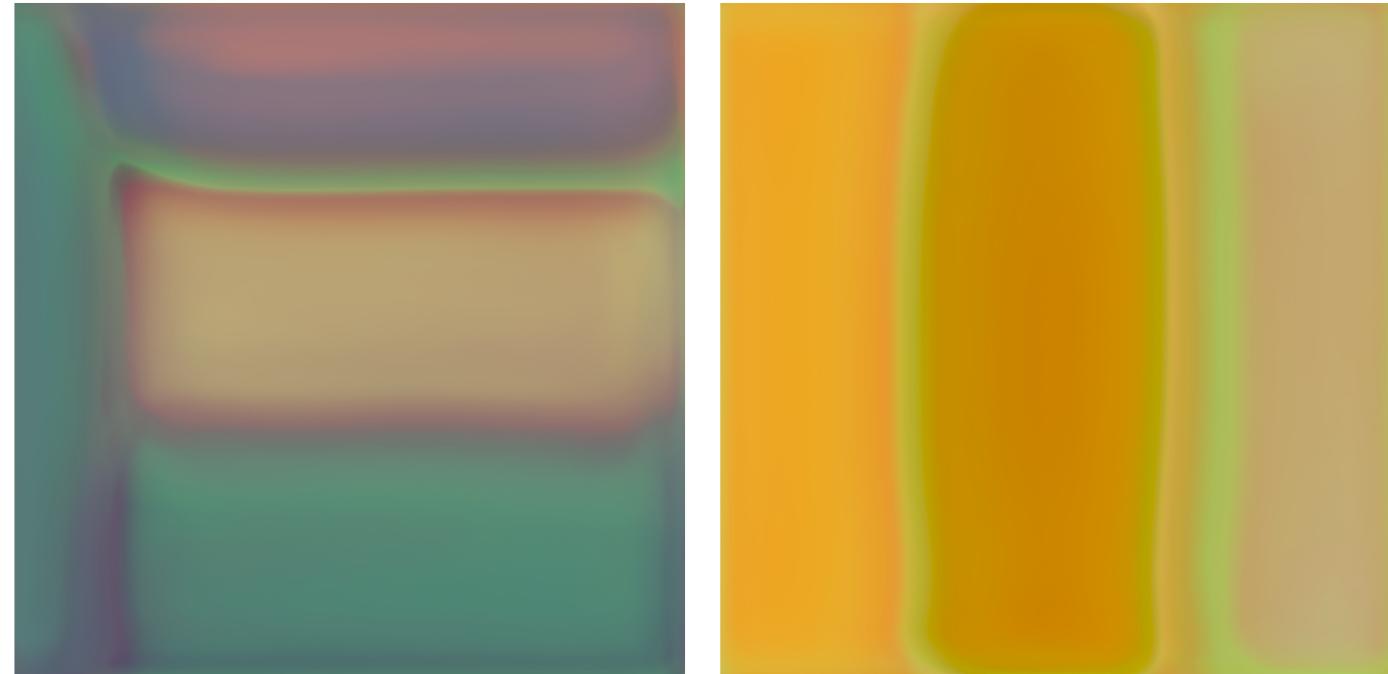
How to train a generative model without

imitating
pastiching
mimicking
parrotting
copying
stealing
modelling

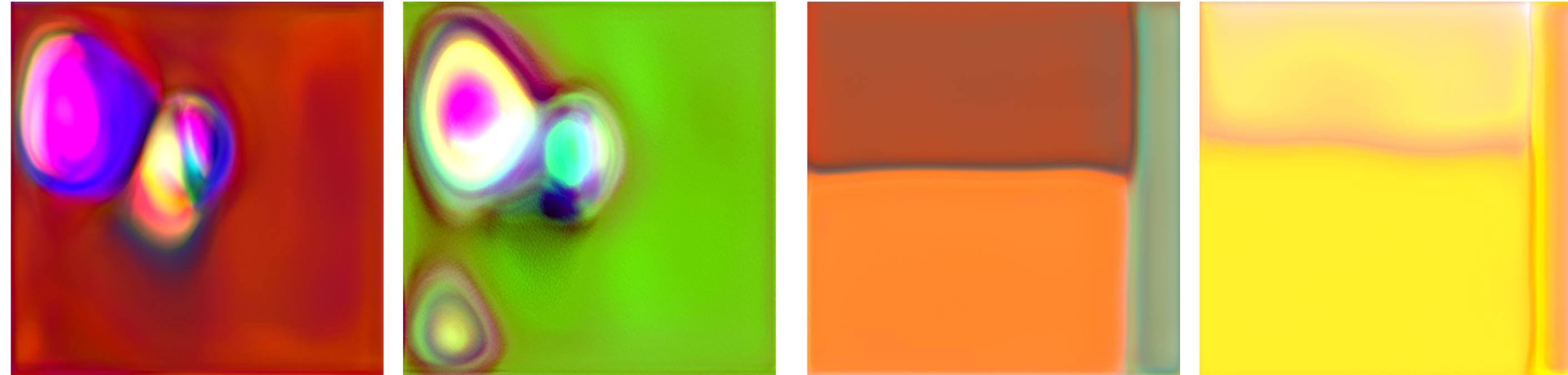
data?



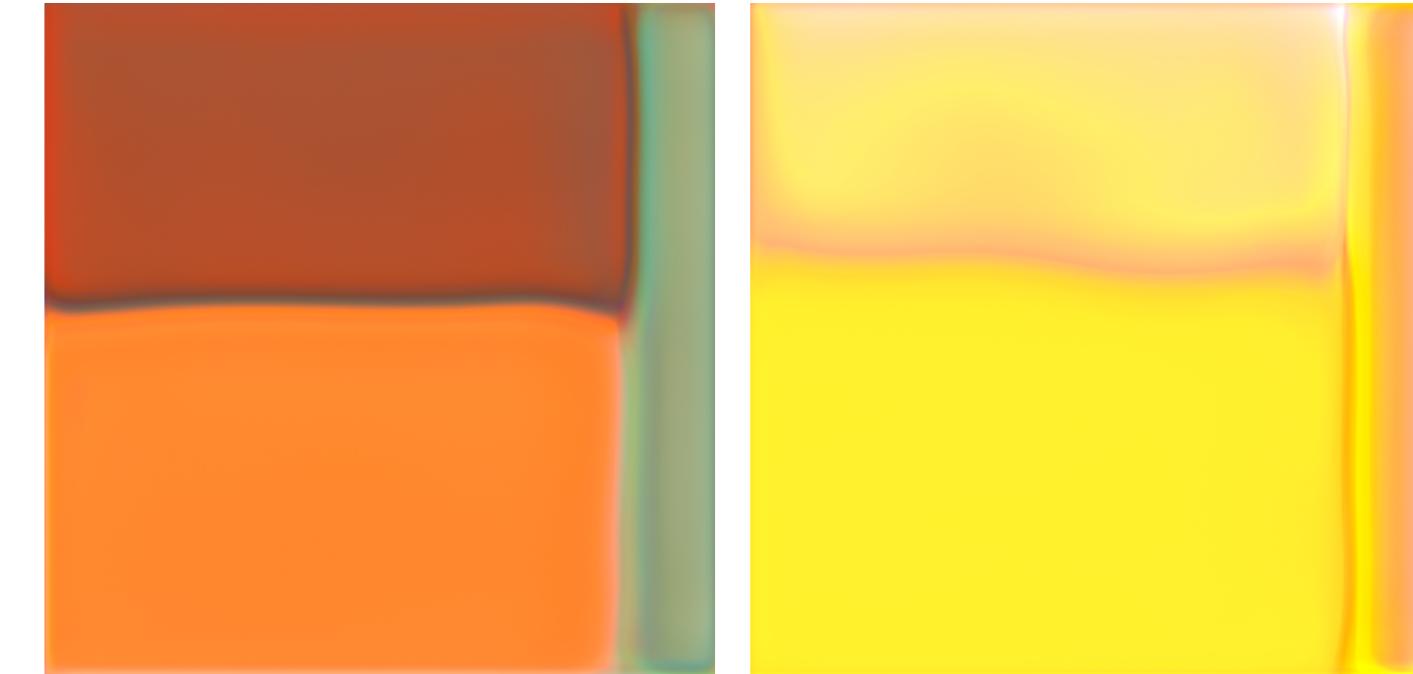
(un)stable equilibrium 1:1 (2019)



(un)stable equilibrium 1:1



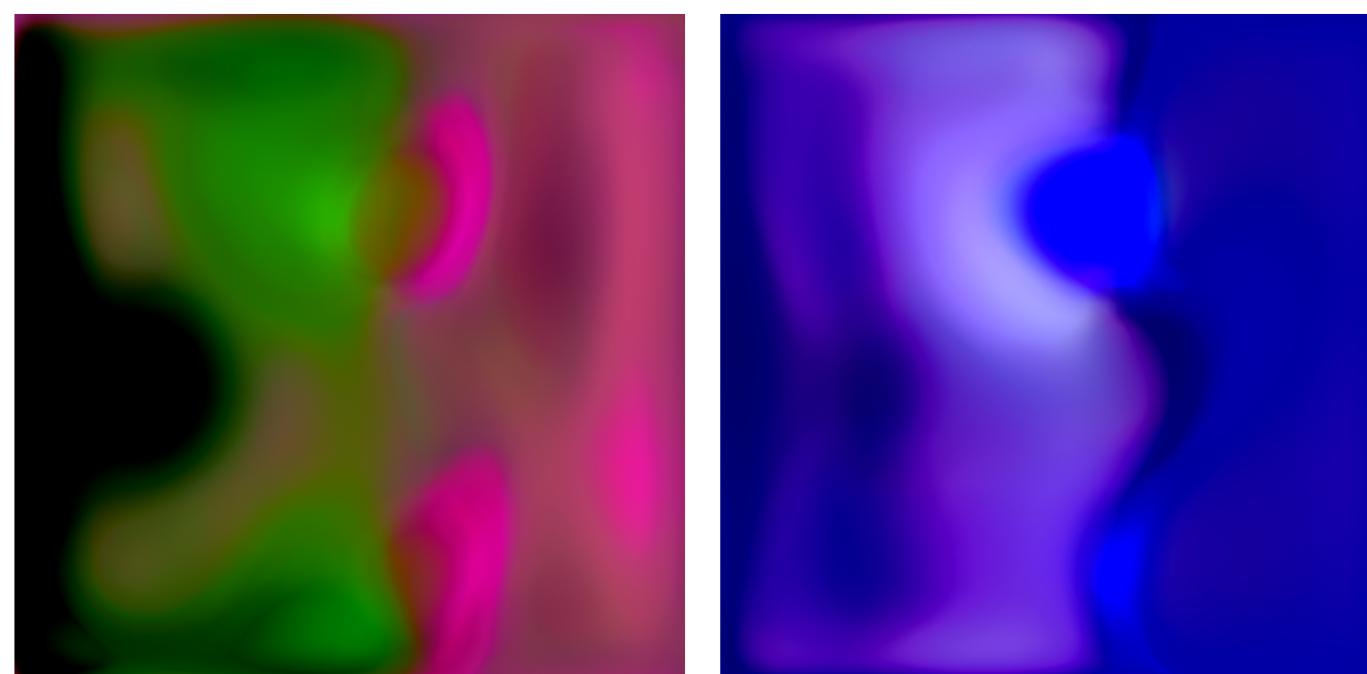
(un)stable equilibrium 1:3



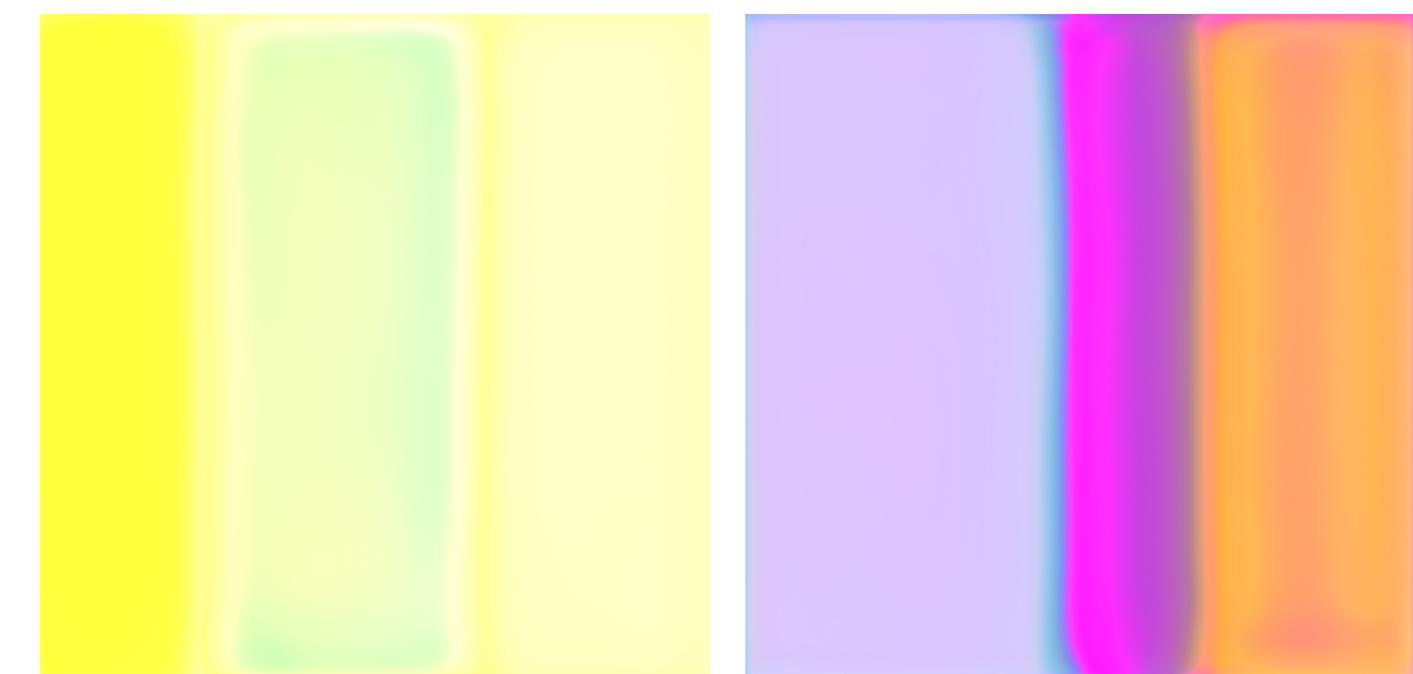
(un)stable equilibrium 1:5



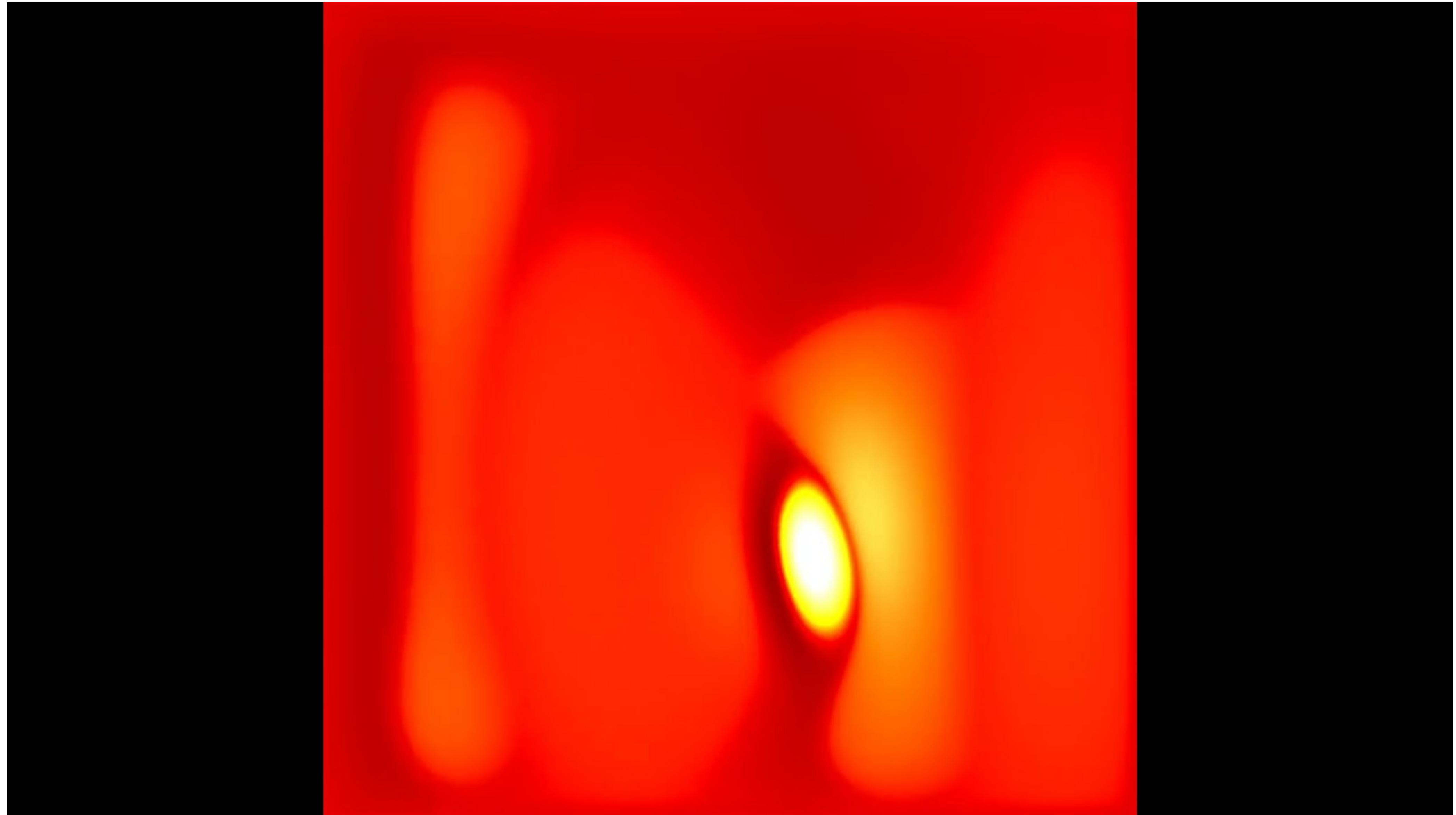
(un)stable equilibrium 1:2



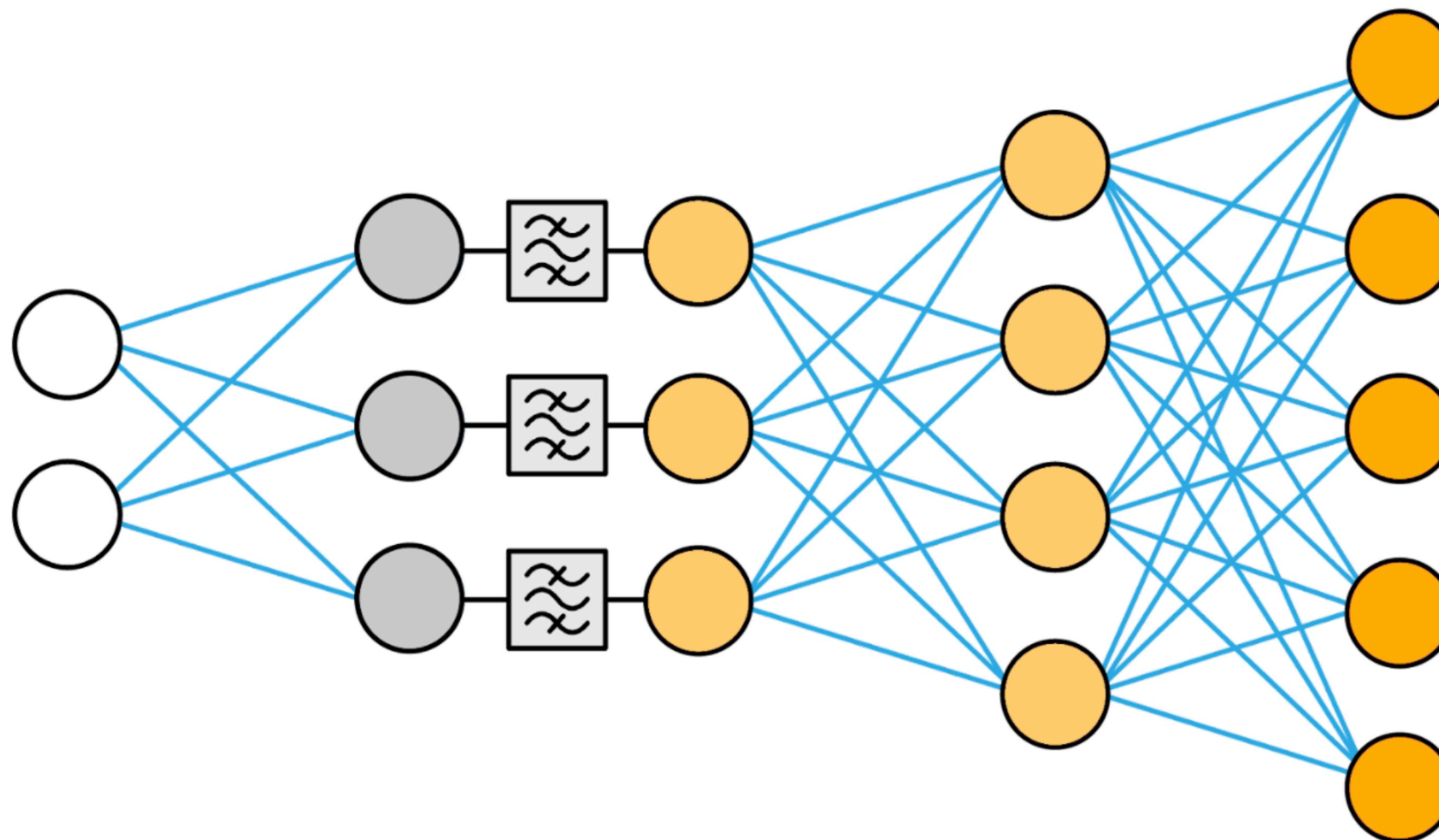
(un)stable equilibrium 1:4



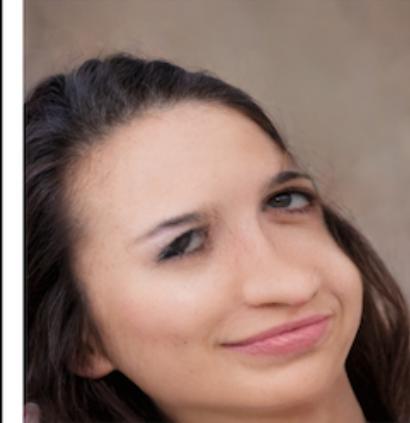
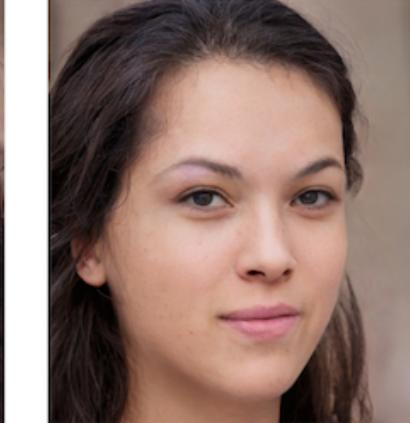
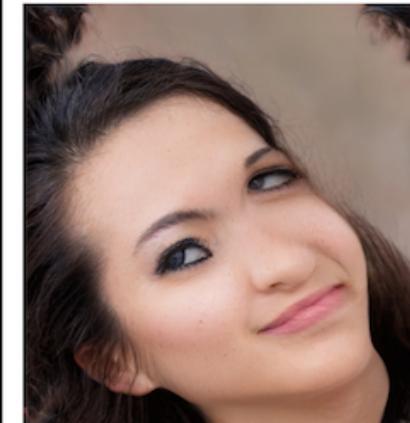
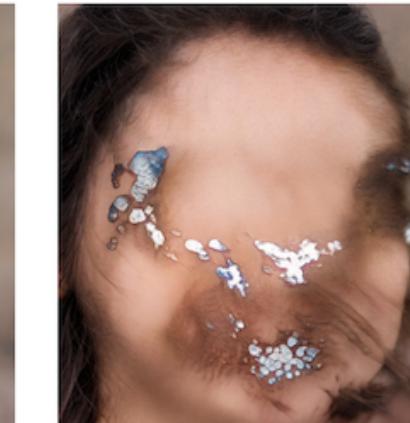
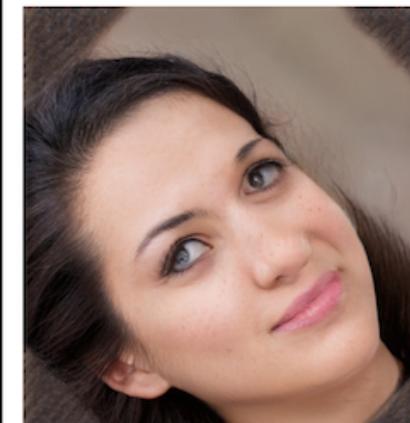
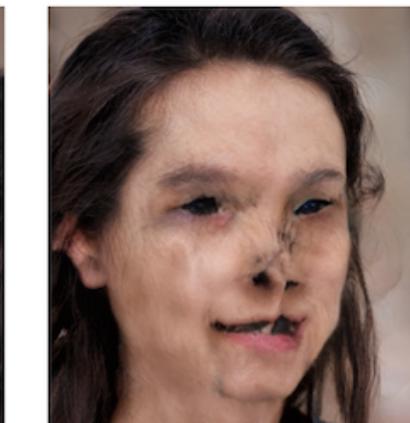
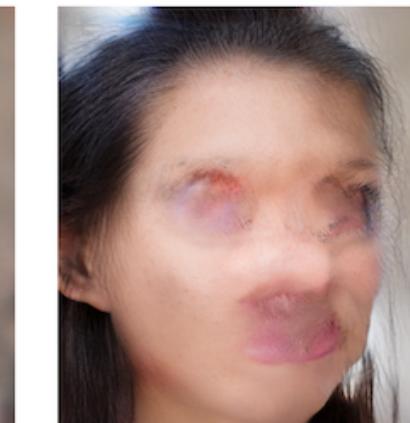
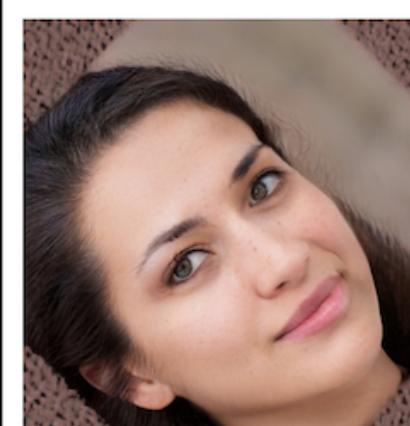
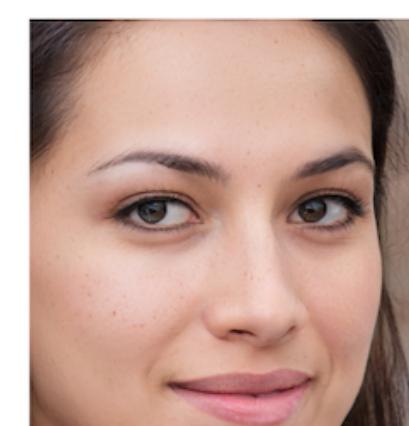
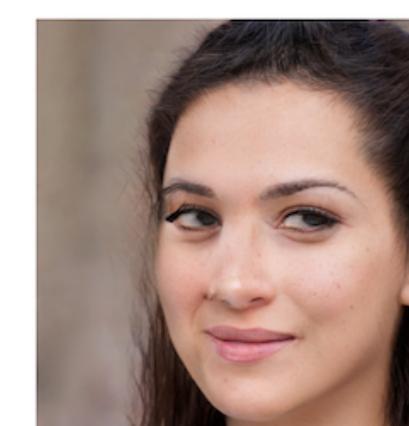
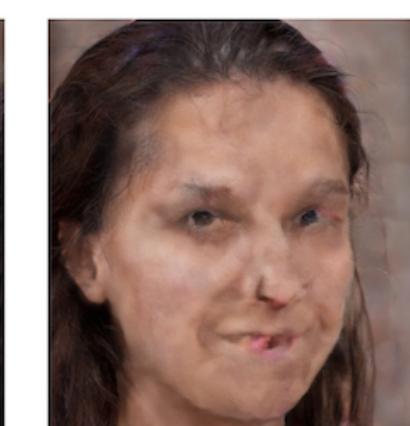
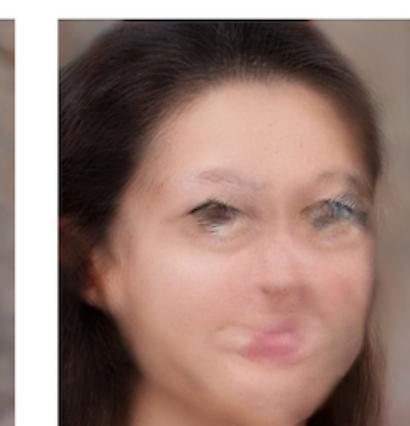
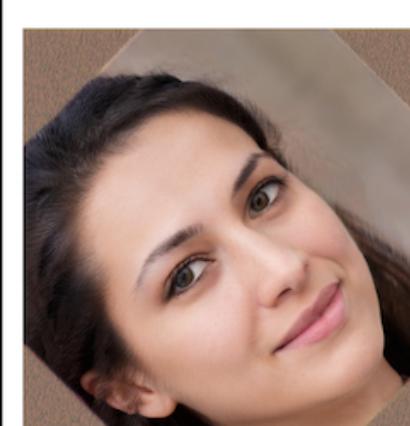
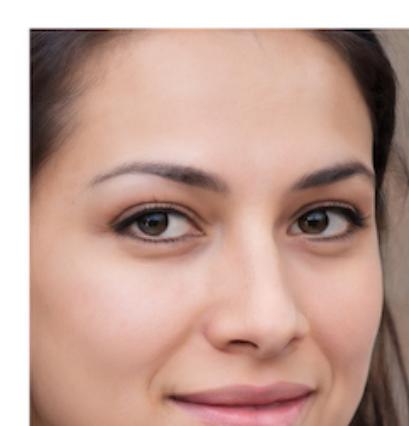
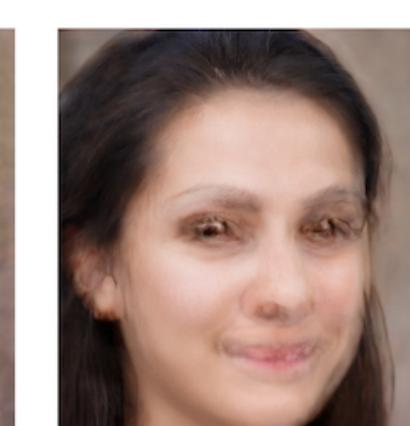
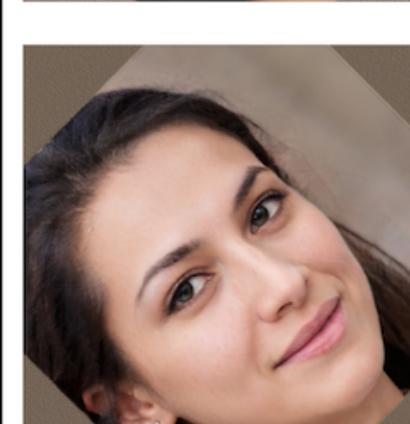
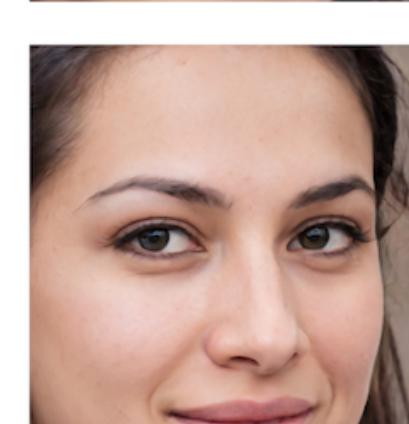
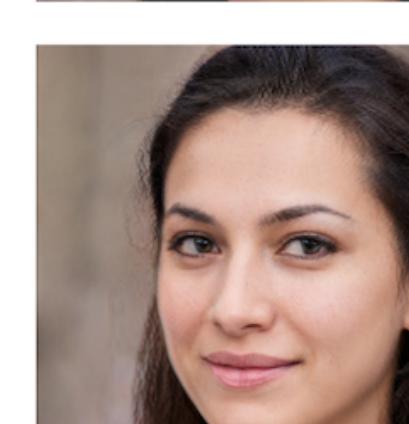
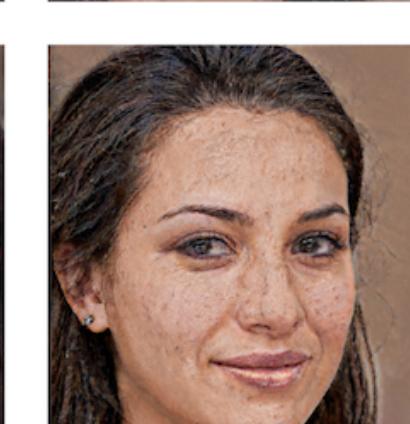
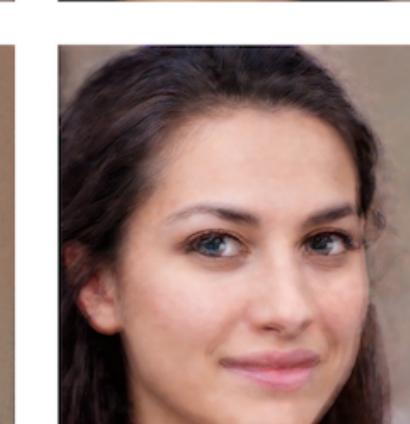
(un)stable equilibrium 1:6



(un)stable equilibrium 2:1 (2025)

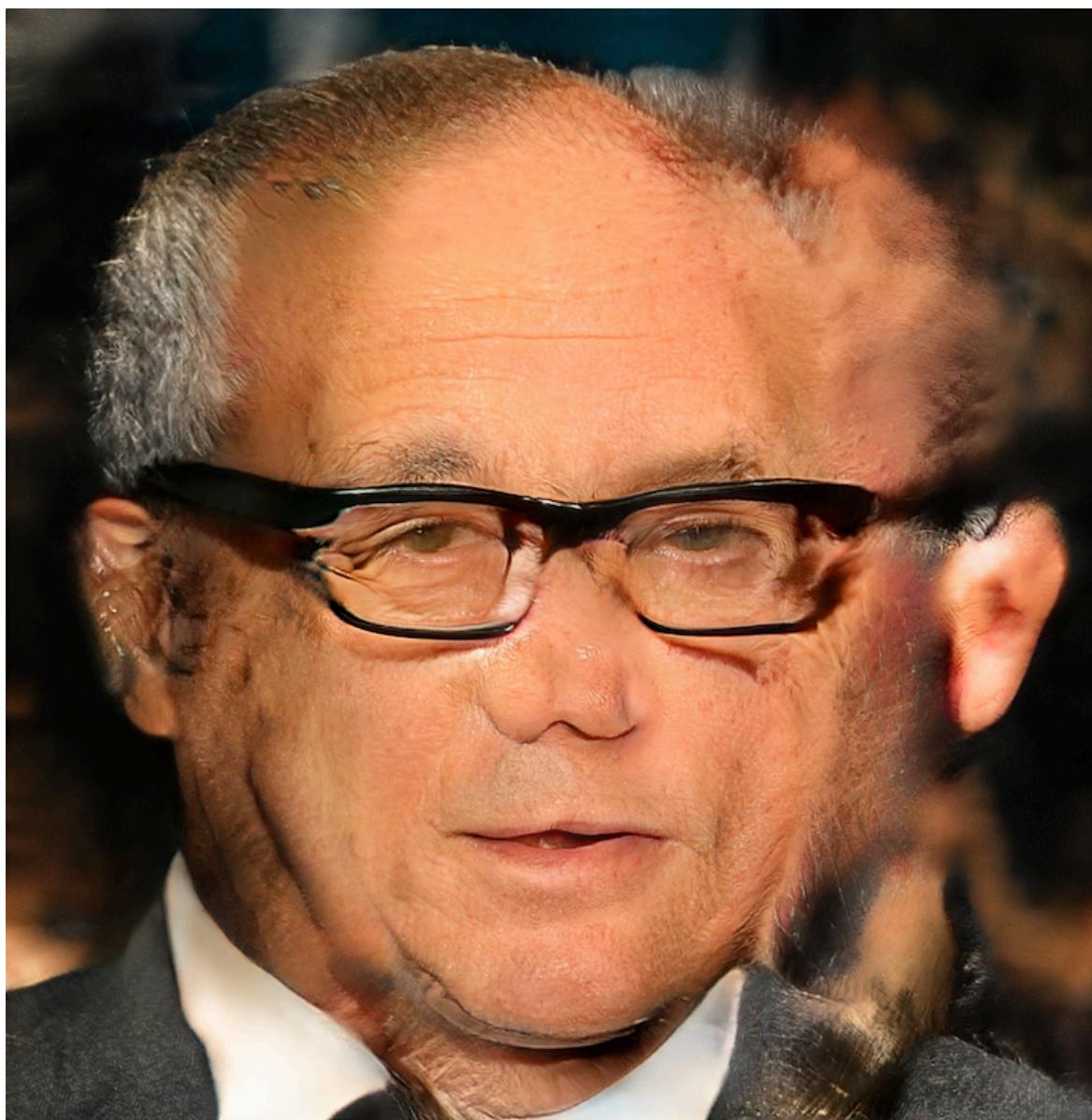


Network bending — inserting controllable filters into pre-trained networks

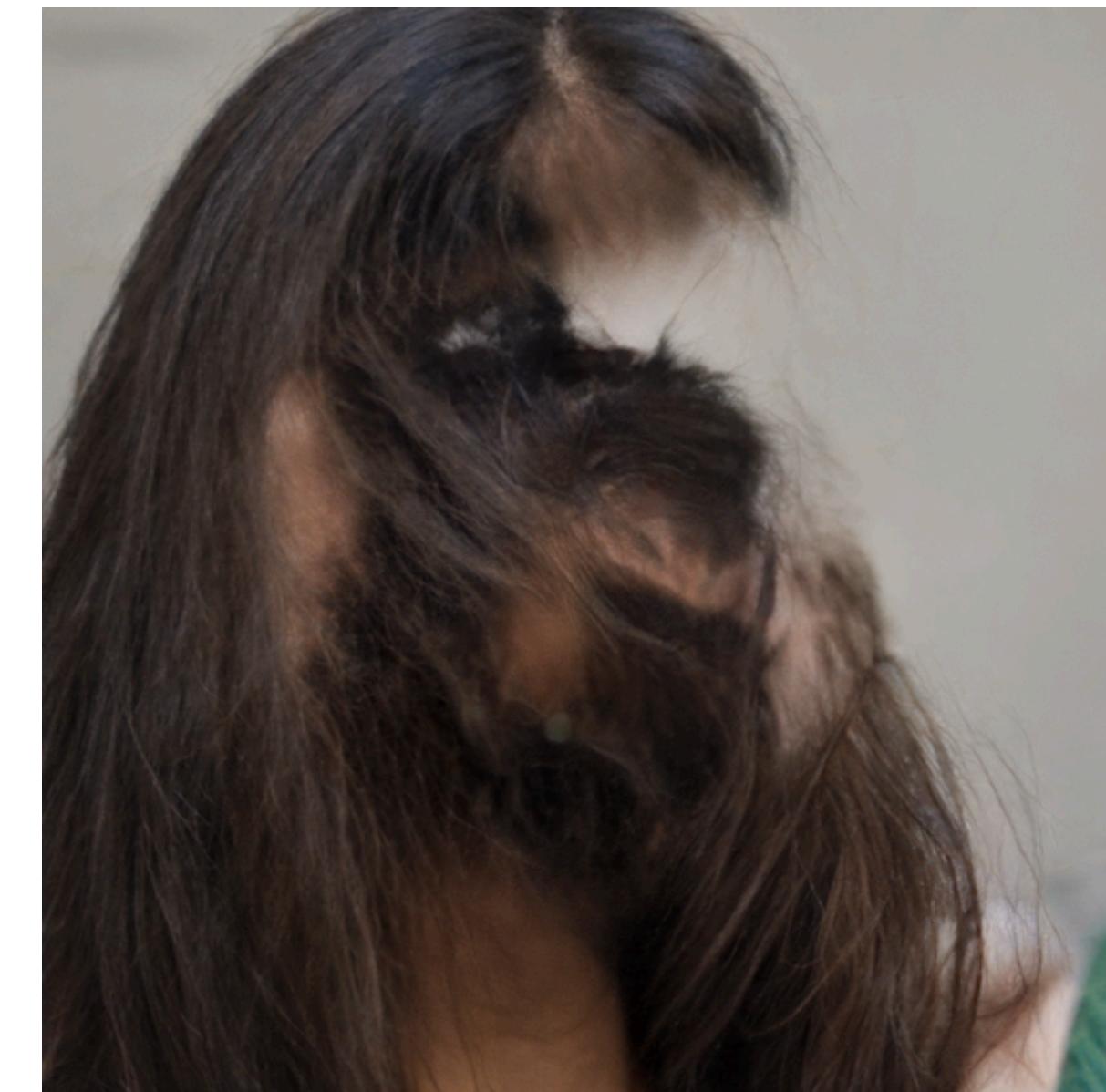
Layer	Rotate	Scale	Flip horizontal	Binary threshold	Dilate
2					
4					
6					
8					
10					
12					



Layer-wide



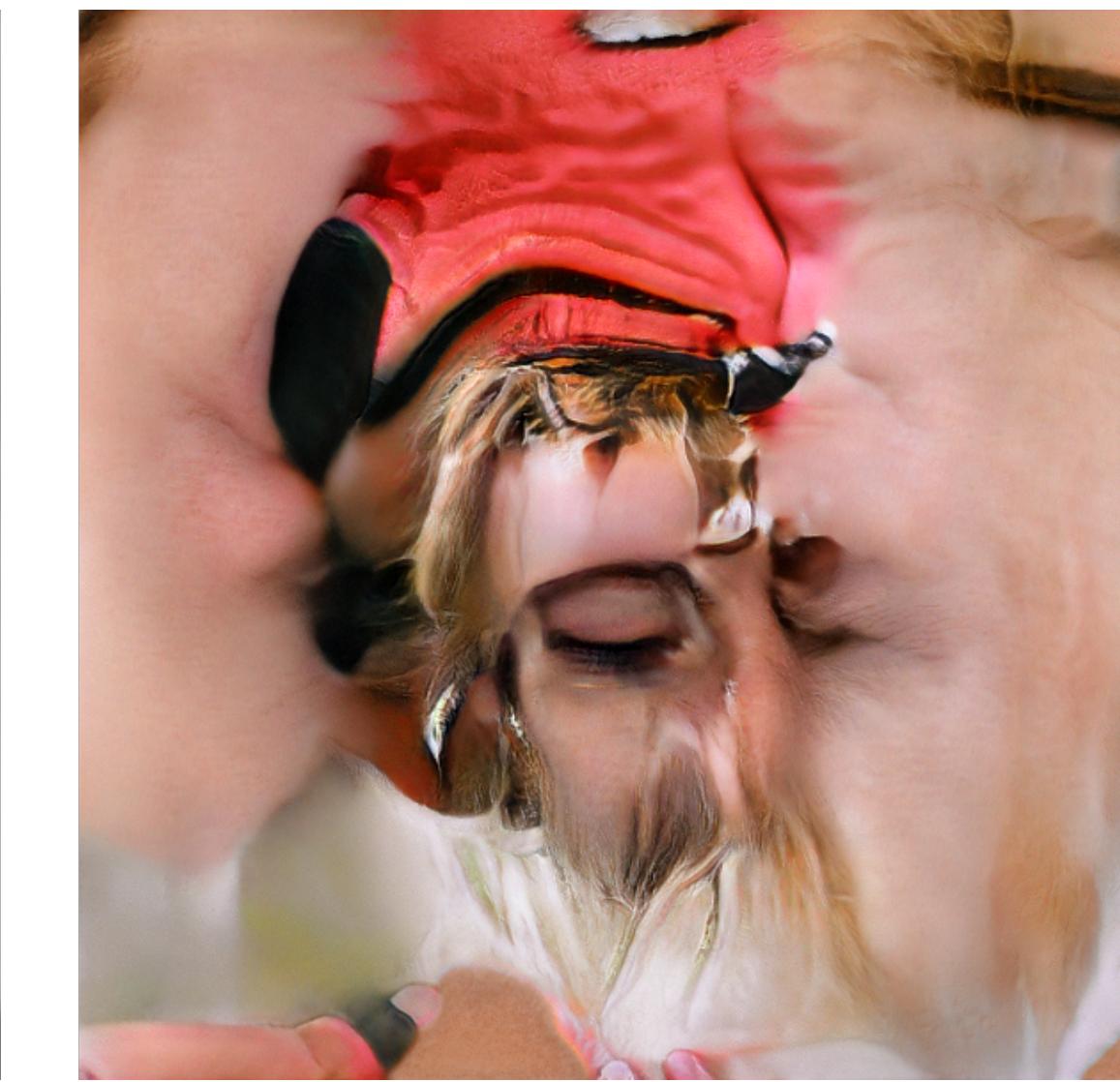
Random



Cluster



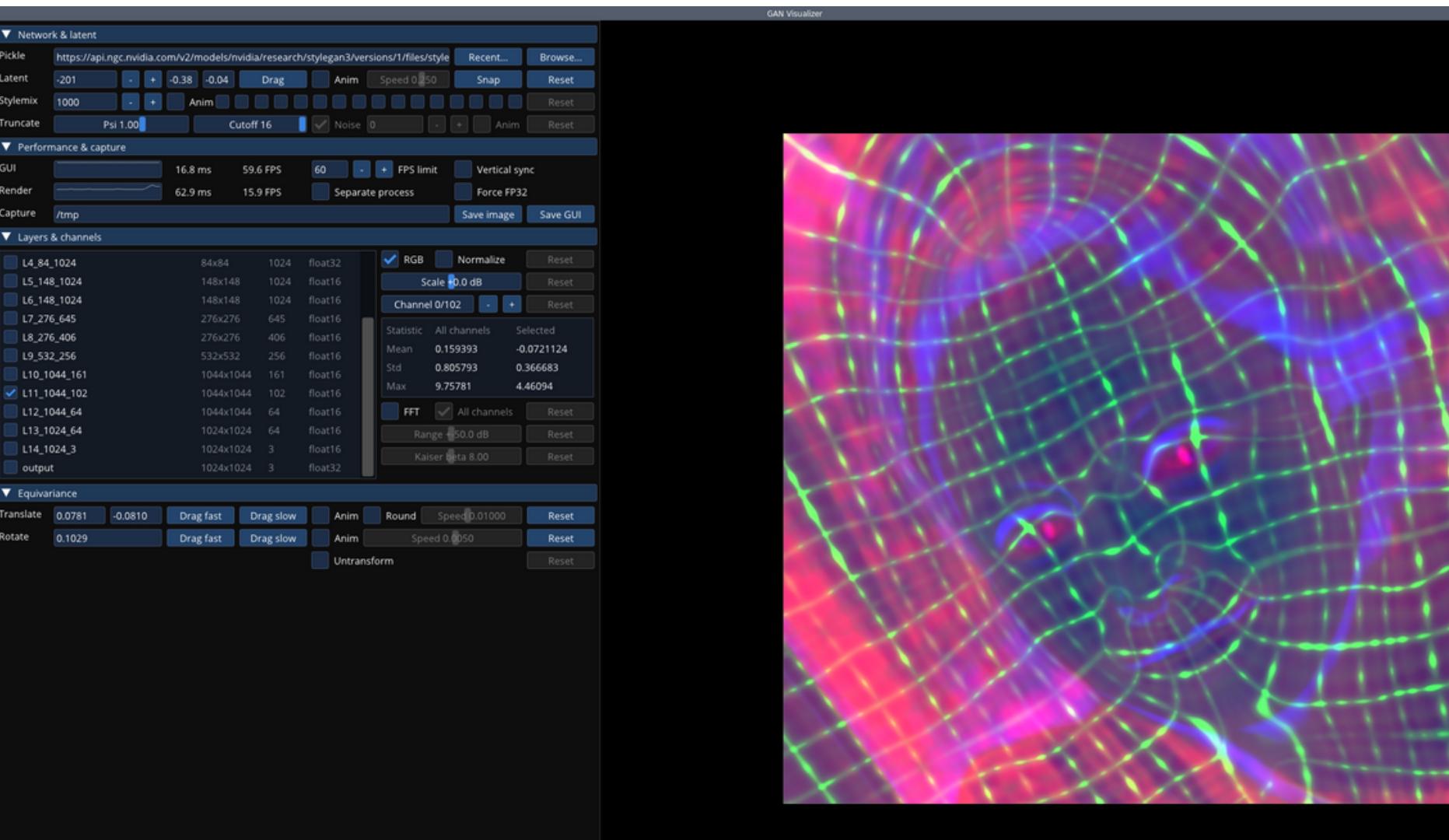
**Combining many
transformations**



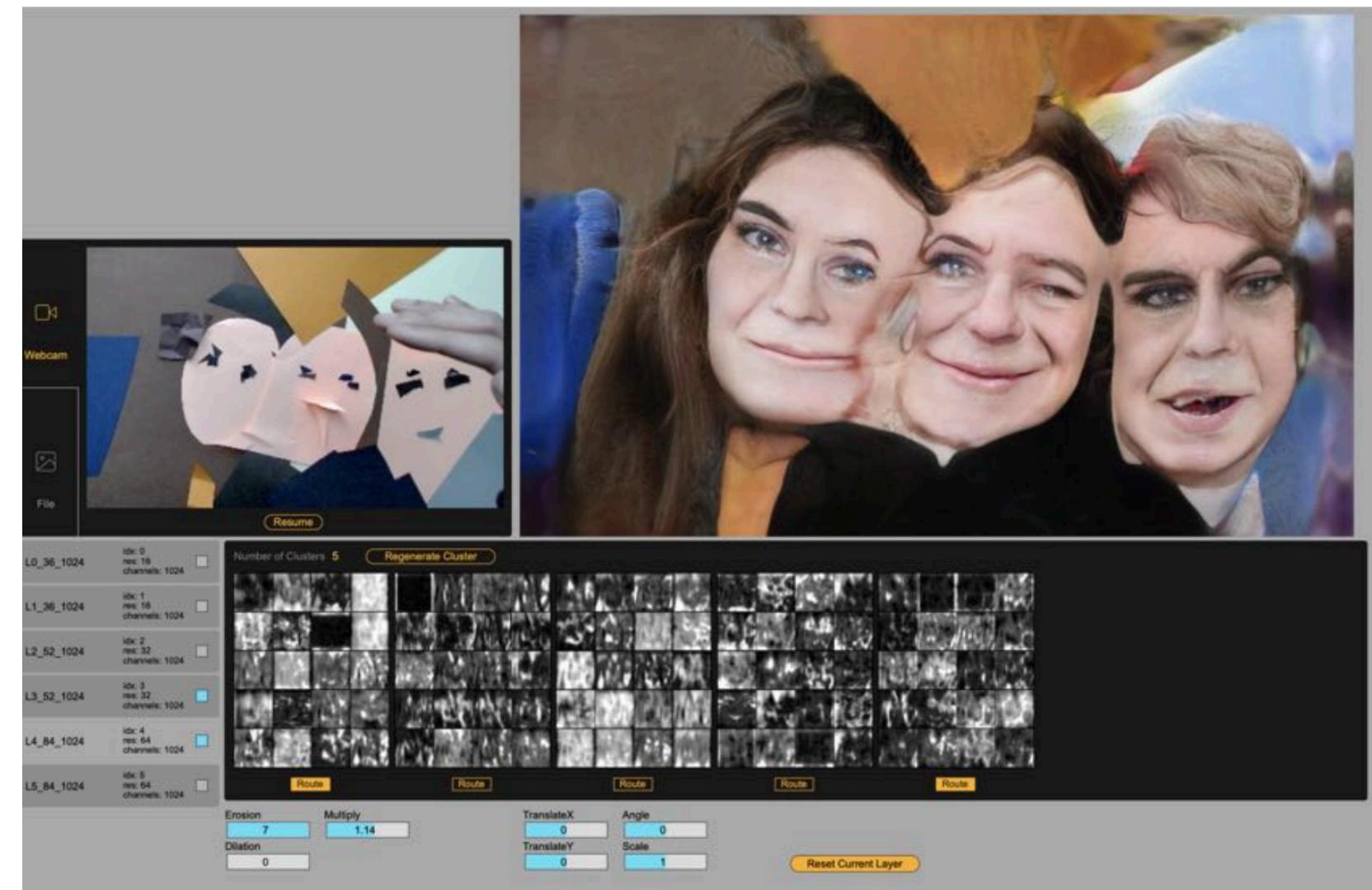
Teratome (2020)



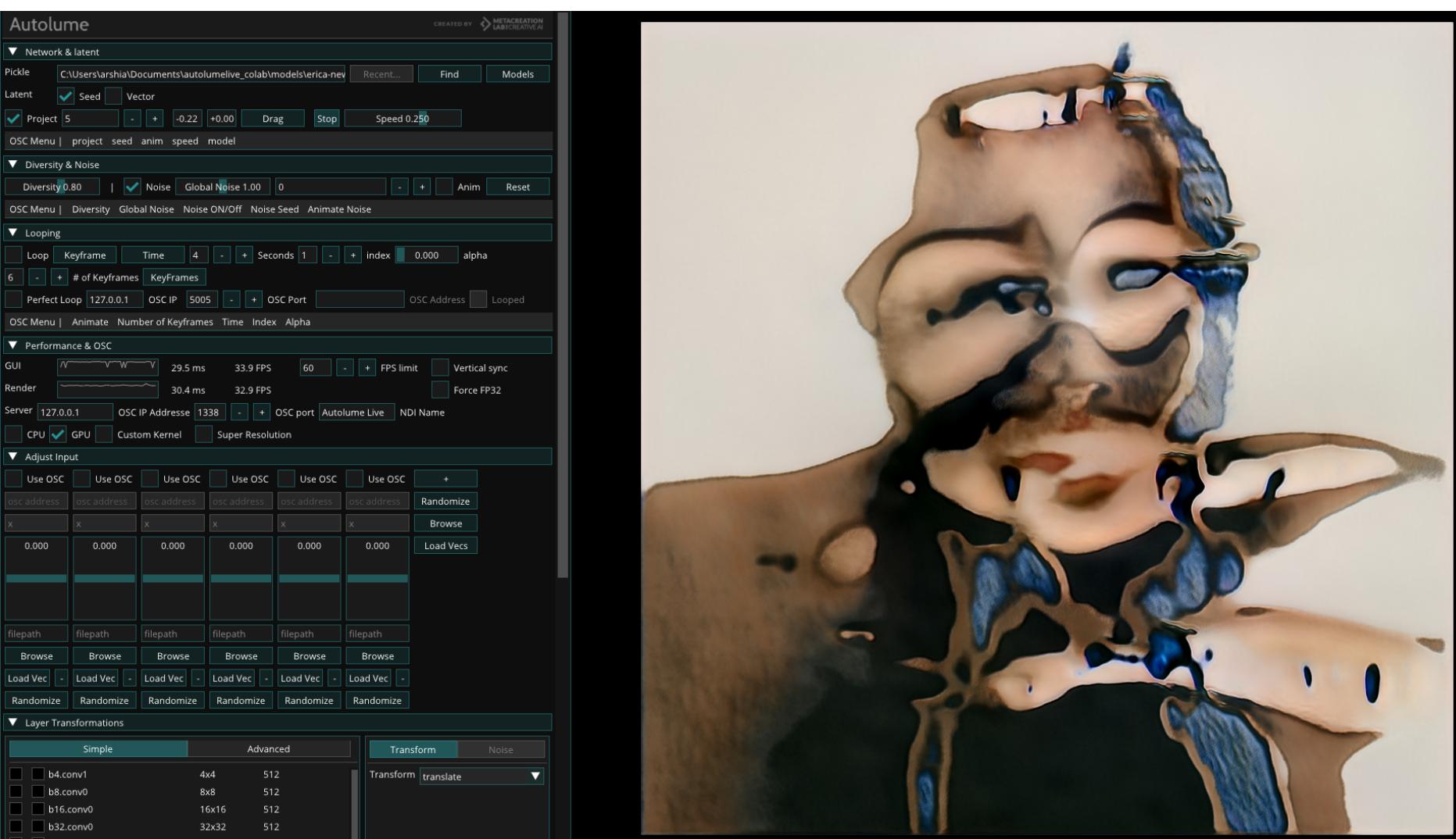
Fragments of self (2021)



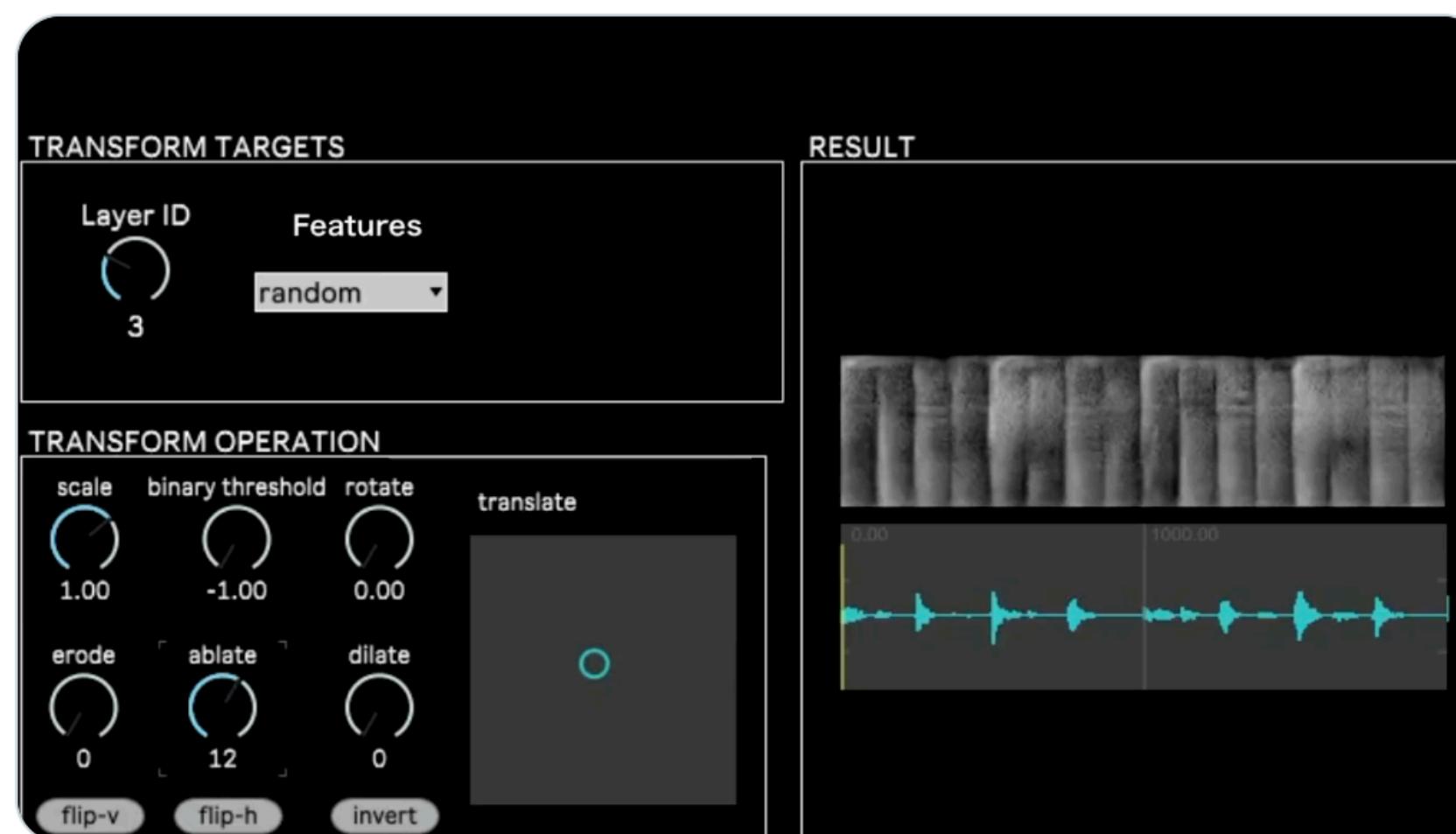
StyleGAN3 visualiser
NVIDIA



StyleGAN-Canvas
Shuoyang Zheng



Autolume
Simon Fasier University



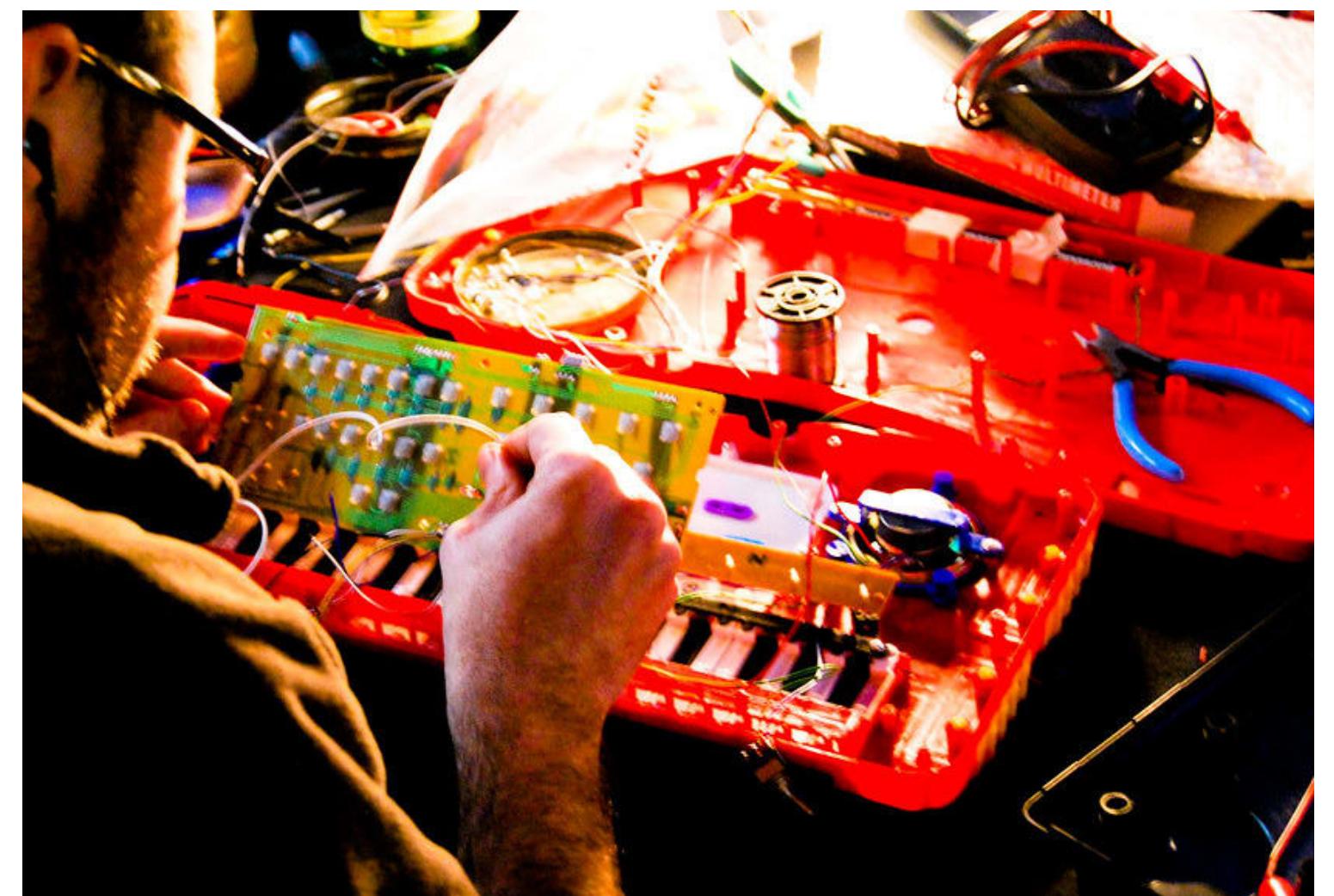
LoopGAN interface
Nao Tokui



Data bending



Glitch art



Circuit bending

Link to slides:



Thanks for listening

<https://terencebroad.com/>

terry.m.broad@gmail.com