

Stable Diffusion

Hugo Guillen



Then

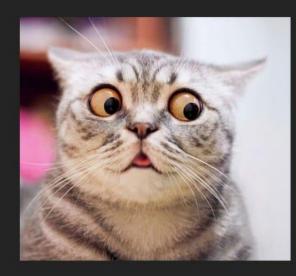




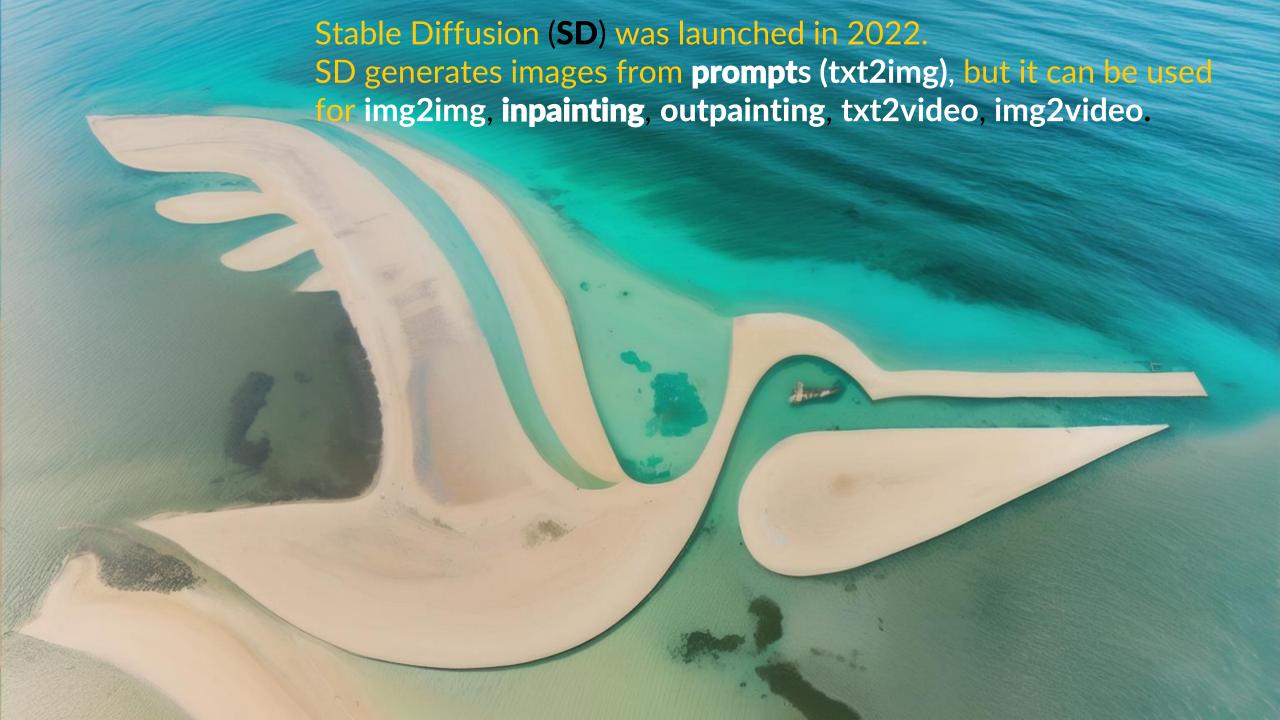
Ban Al - Save Artists

Now

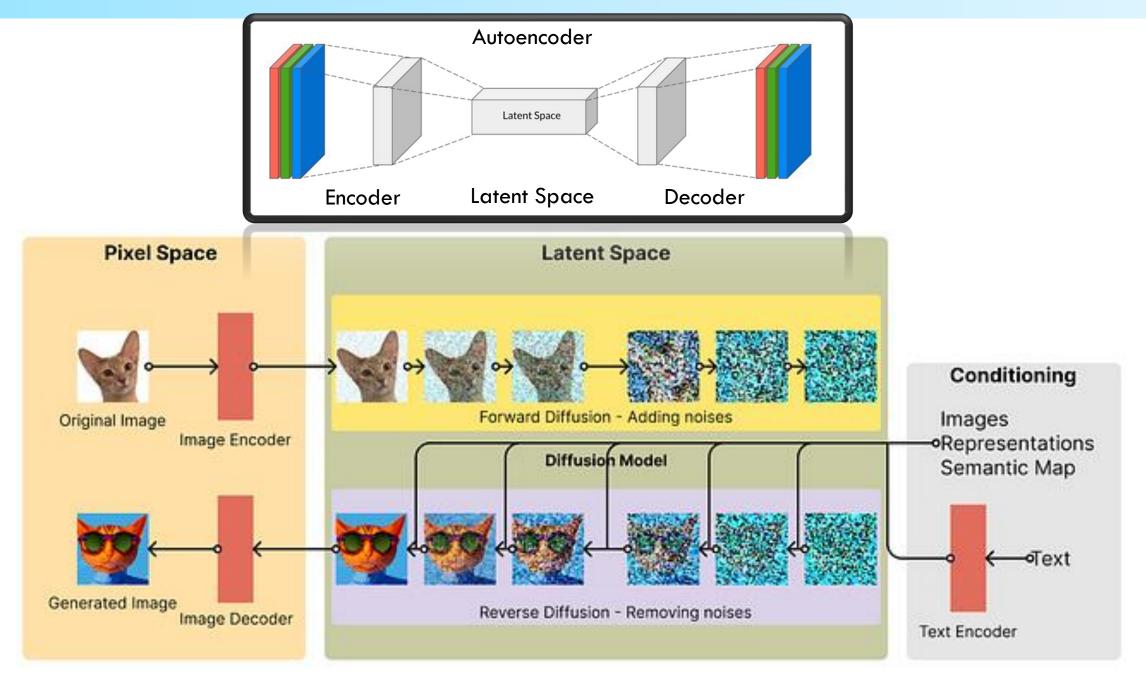




it's so convenient



Stable Diffusion Architecture



img2img



Original

a painting of a chubby old bald doctor on a white coat, white shoes, white moustache, blue tie, (style of X:1.3)



Frida Kahlo



Romero Britto



Diego Rivera



Akira Toriyama



Van Gogh



Lisa Frank



Botero



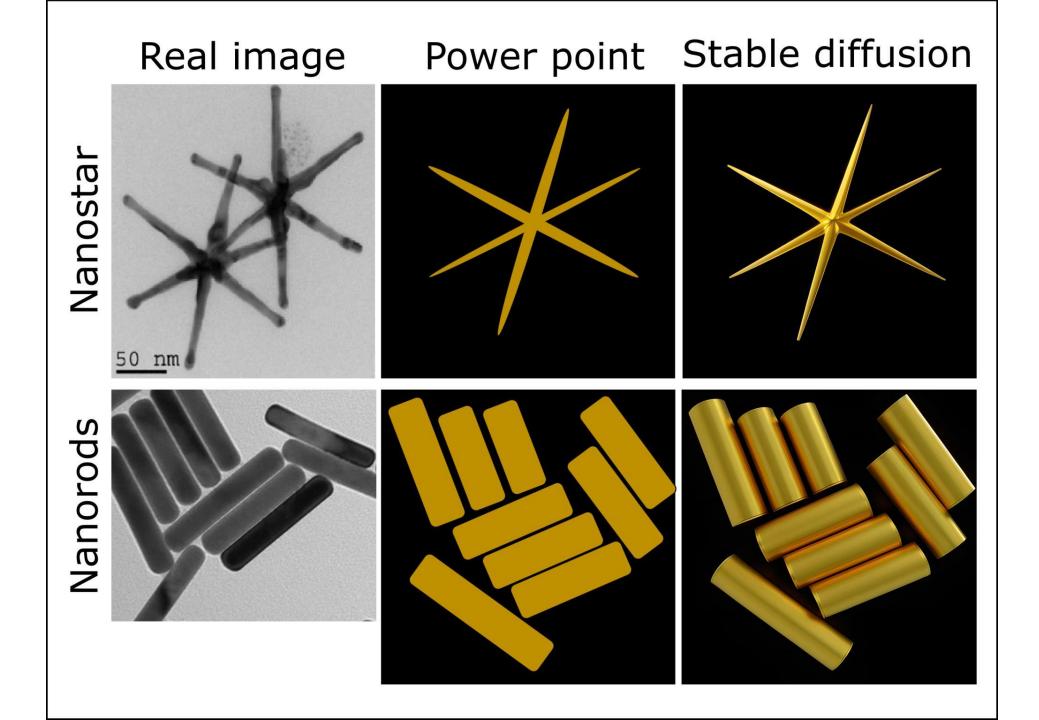
revAnimated

img2img (2)





Leonhard Euler Ada Lovelace



Inpainting

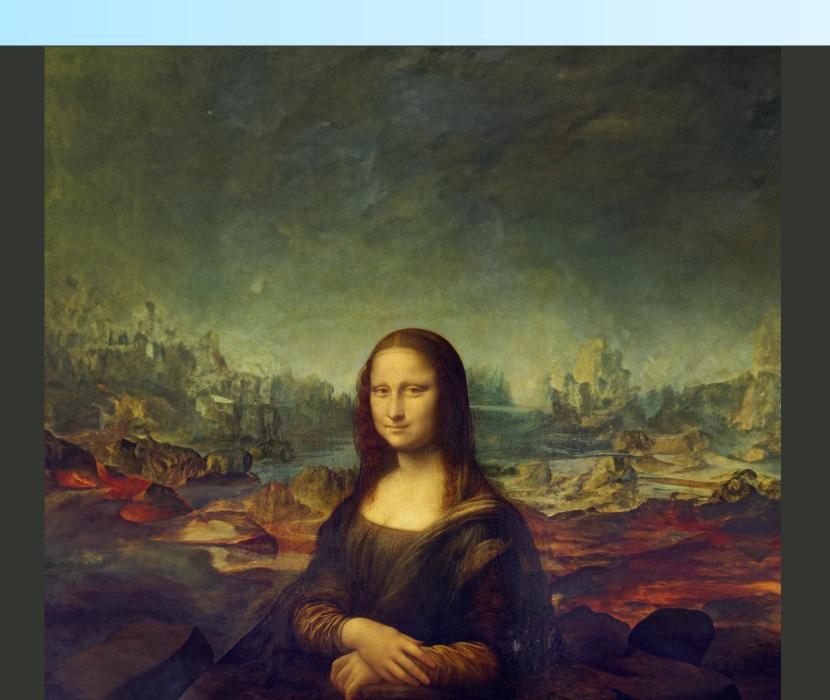


'Girl with a Pearl Earring'

'Girl with a Red Hair'

Outpainting

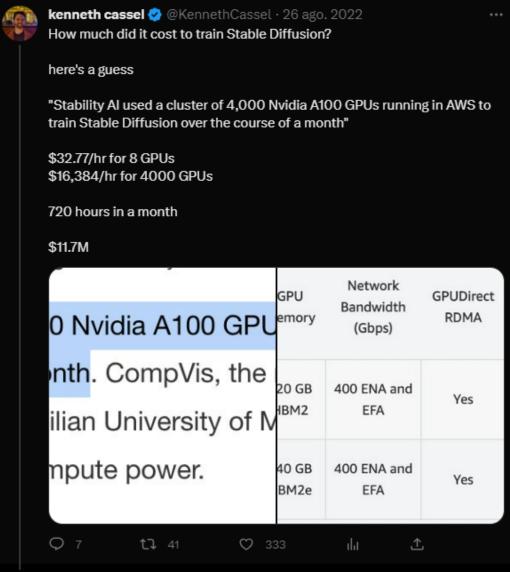




Outpainting (2)









We actually used 256 A100s for this per the model card, 150k hours in total so at market price \$600k

Traducir Tweet



How much does it take to train a Stable Diffusion model from scratch? The answer: 79,000 A100-hours in 13 days, for a total training cost of <\$160k. Our tooling reduces the time and cost to train by 2.5x, and is also extensible and simple to use.

Traducir Tweet



6:56 p. m. · 24 ene. 2023 · 66,1 mil Reproducciones

LORA



Computer Science > Computation and Language

[Submitted on 17 Jun 2021 (v1), last revised 16 Oct 2021 (this version, v2)]

LoRA: Low-Rank Adaptation of Large Language Models

Edward J. Hu, Yelong Shen, Phillip Wallis, Zo Weizhu Chen

To the best of our knowledge, Simo Ryu (implementation adapted to Stable Diffusi lots of interesting discussions and insight

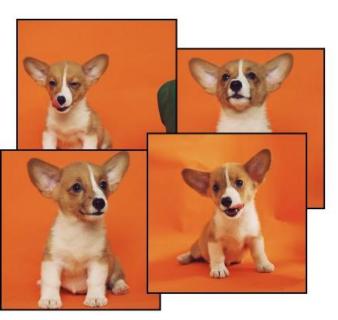


DreamBooth

DreamBooth



DreamBooth is a method to personalize text-to-image models like Stable Diffusion given just a few (3-5) images of a subject. It allows the model to generate contextualized images of the subject in different scenes, poses, and views.



Input images



in the Acropolis



in a doghouse



in a bucket



getting a haircut

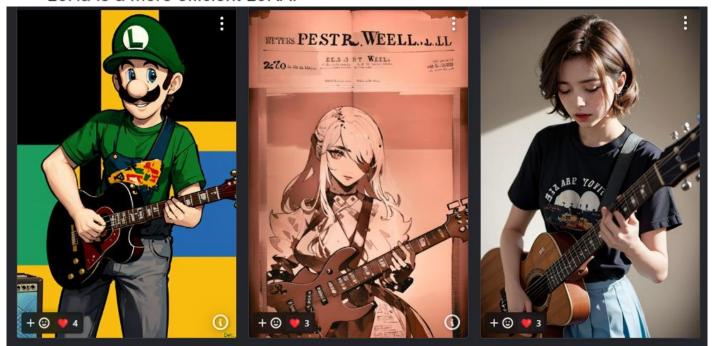
LyCORIS

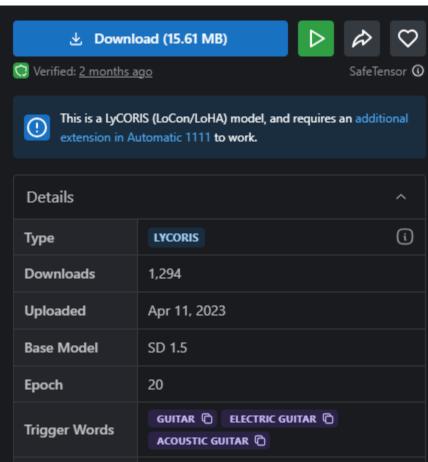
LyCORIS (Lora beYond Conventional methods, Other Rank adaptation Implementations for Stable Diffusion) model is an alternative method for implementing different algorithm to do parameter-efficient fine-tuning on Stable Diffusion.

LyCORIS started from LoCon and LoHa and can easily be mixed with LoRA. However, there are a few things that differentiate LyCORIS and LoRAs. LoRA files are, on average, 180MB in size, whereas LyCORIS files are 40-60MB in size. LyCORIS uses the *.safetensor file type.

LyCORIS uses convolutional layers instead of text encoder for image learning.

- LoCon is a LoRA that uses convolutional layers.
- LoHa is a more efficient LoRA.





AUTOMATIC1111

Stable Diffusion web UI

GRADIO













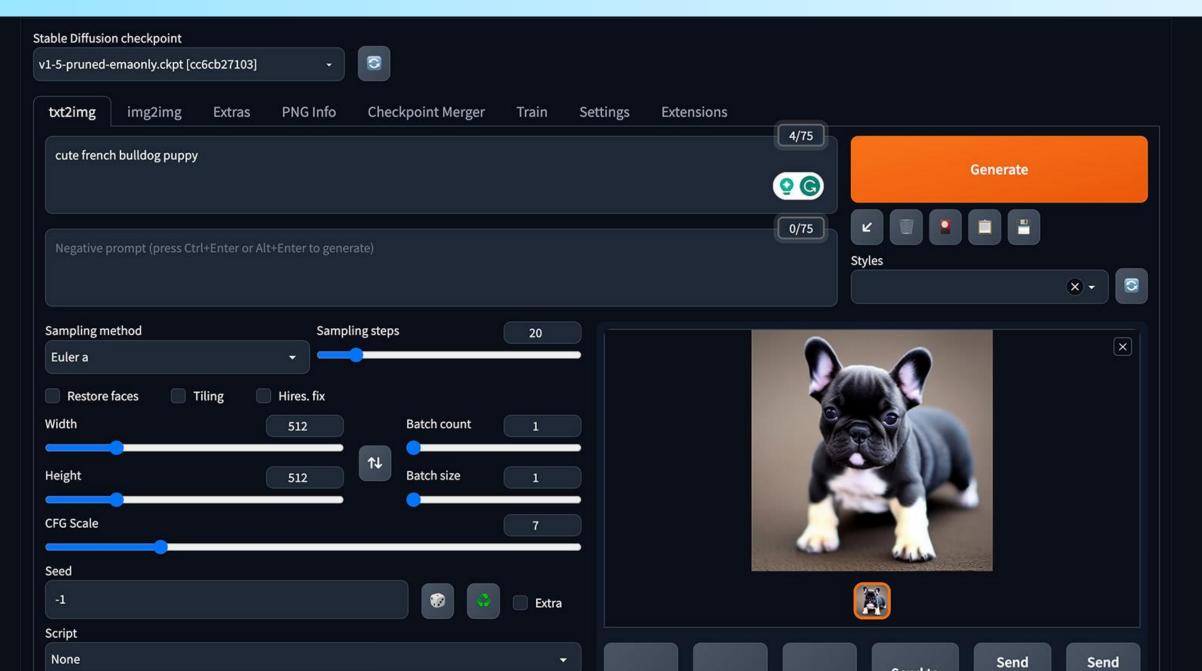




Models repositories

Communities

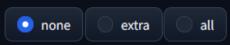
Automatic1111



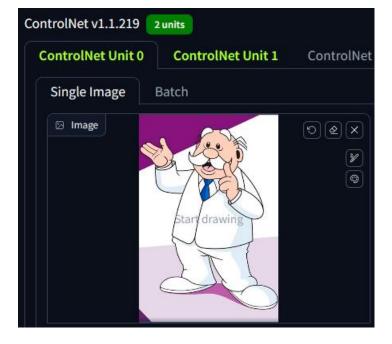
Apply and restart UI

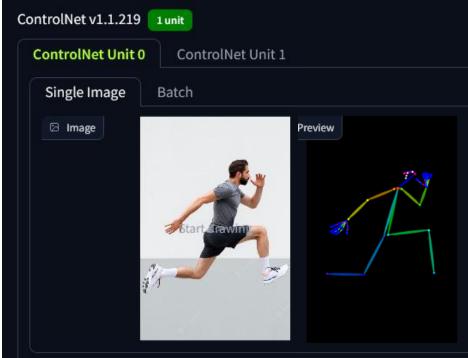
Check for updates

Disable all extensions



Extension	URL	Branch	Version	Date	Update
☐ OneButtonPrompt	https://github.com/Alrjen/OneButtonPrompt	main	7e038eee	Mon May 29 05:46:52 2023	unknown
▼ Stable-Diffusion-Webui-Civitai-Helper	https://github.com/butaixian ran/Stable-Diffusion-Webui-Civitai-Helper.git	main	920ca326	Tue May 23 11:53:22 2023	unknown
☑ a1111-sd-webui-lycoris	https://github.com/KohakuBlueleaf/a1111-sd-webui-lycoris	main	e4754888	Tue Jun 6 02:12:14 2023	unknown
✓ adetailer	https://github.com/Bing-su/adetailer.git	main	76424252	Mon Jun 5 05:32:16 2023	unknown
canvas-zoom	https://github.com/richrobber2/canvas-zoom.git	main	4599938f	Tue Jun 6 22:50:48 2023	unknown
✓ clip-interrogator-ext	https://github.com/pharmapsychotic/clip-interrogator-ext.git	main	9e6bbd9b	Tue Mar 28 03:20:44 2023	unknown
✓ ddetailer	https://github.com/dustysys/ddetailer.git	master	22a17414	Mon Nov 28 09:33:31 2022	unknown
multidiffusion-upscaler-for-automatic1111	https://github.com/pkuliyi2015/multidiffusion-upscaler-for-automatic1111	main	70b3c5ea	Sun May 28 09:11:28 2023	unknown
openOutpaint-webUI-extension	https://github.com/zero01101/openOutpaint-webUI-extension	main	5e84d6d5	Mon Apr 10 23:01:41 2023	unknown
sd-canvas-editor	https://github.com/jtydhr88/sd-canvas-editor.git	master	9849a08c	Fri May 5 02:16:38 2023	unknown
✓ sd-model-organizer	https://github.com/alexandersokol/sd-model-organizer.git	main	652580de	Mon May 8 11:00:16 2023	unknown
sd-model-preview-xd	https://github.com/CurtisDS/sd-model-preview-xd	main	3ed39cd0	Tue May 23 00:52:25 2023	unknown
✓ sd-pixel	https://github.com/Leodotpy/sd-pixel.git	master	ceb493db	Wed May 31 19:57:01 2023	unknown
✓ sd-webui-controlnet	https://github.com/Mikubill/sd-webui-controlnet.git	main	99408b9f	Wed Jun 7 02:04:53 2023	unknown
✓ sd-webui-faceswap	https://github.com/Ynn/sd-webui-faceswap	main	ced7c344	Sat Jun 10 15:56:55 2023	unknown
✓ sd-webui-llul	https://github.com/hnmr293/sd-webui-llul.git	master	aa47b3ee	Thu May 4 16:14:34 2023	unknown
✓ sd-webui-lora-block-weight	https://github.com/hako-mikan/sd-webui-lora-block-weight.git	main	19a5dd07	Wed May 31 17:11:13 2023	unknown
✓ stable-diffusion-webui-eyemask	https://github.com/ilian6806/stable-diffusion-webui-eyemask.git	master	7b803a43	Fri Jun 2 11:15:19 2023	unknown
✓ stable-diffusion-webui-rembg	https://github.com/AUTOMATIC1111/stable-diffusion-webui-rembg.git	master	3d9eedbb	Sun Jun 4 13:35:24 2023	unknown
✓ stable-diffusion-webui-text2prompt	https://github.com/toshiaki1729/stable-diffusion-webui-text2prompt.git	main	c4d8cec1	Fri Feb 24 08:29:55 2023	unknown







txt2img

anime style, full body shot 1 girl, (white visor: 1.3), slightly ripped jeans (pants: 1.2), black crop top, denim jacket, shades on head, long blue hair, blue eyes, black skater shoes, tokyo city street background

Negative prompt: (((wings))), badhandv4, EasyNegative, negative_hand-neg, missing feet, missing leg

Model: mechanicmixV2_mechanicmixV2,

ControlNet 0: "preprocessor:

reference_adain+attn

ControlNet 1: "preprocessor: depth_midas,

model: control_depth-fp16 [400750f6]

OC



Pose



"Automatic" reference







https://twitter.com/danny_rg2000