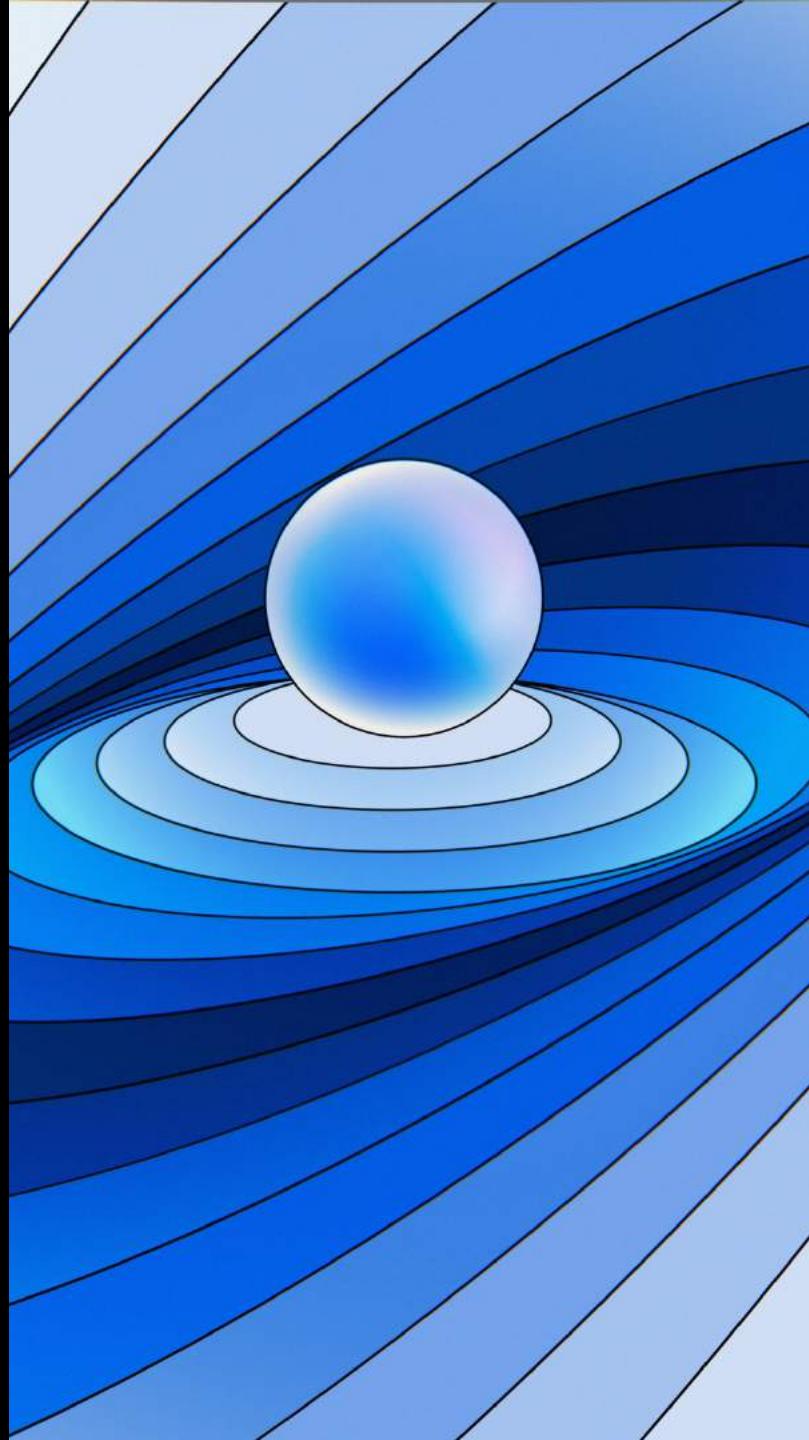


AI ART - LESSON 4 - APRIL 13, 2023

TOOLS & WORKFLOWS FOR AI ART (PART 2)

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WHY AM I HERE?

- MIDJOURNEY - NEW DEVELOPMENTS
- STABLE DIFFUSION - WEIGHTING & BLENDING
- CONTROLNET
- USING CHATGPT FOR PROMPT ENGINEERING
- TEXTUAL INVERSION VS LORA
- TRAINING YOUR OWN MODEL

WHAT'S NEXT?

- ~~LESSON 1 - INTRODUCTION TO AI ART~~
- ~~LESSON 2 - BASIC TOOLS FOR CREATING AI ART~~
- ~~LESSON 3 - TOOLS & WORKFLOWS FOR AI ART (PART 1)~~
- **LESSON 4 - TOOLS & WORKFLOWS FOR AI ART (PART 2)**
- LESSON 5 - GETTING FAMILIAR WITH GAN

MIDJOURNEY - NEW DEVELOPMENTS

- PERMUTATION PROMPTS
- DESCRIBE COMMAND
- REPEAT PARAMETER
- NIJI VERSION 5
- MOODBOARD COMMAND (ALPHA)

Permutation Prompts

Permutation Prompts allow you to quickly generate variations of a [Prompt](#) with a single [/imagine](#) command. By including lists of options separated with commas [,](#) within curly braces [{}](#) in your prompt, you can create multiple versions of a prompt with different combinations of those options.

You can use Permutation Prompts to create combinations and permutations involving any part of a Midjourney Prompt, including text, [image prompts](#), [parameters](#), or [prompt weights](#).

Permutation prompts are only available for [Pro Subscribers](#) using Fast mode.

Permutation Prompt Basics

Separate your list of options within curly brackets {} to quickly create and process multiple prompt variations.

Prompt Example:

`/imagine prompt a {red, green, yellow} bird` creates and processes three Jobs.

`/imagine prompt a red bird`

`/imagine prompt a green bird`

`/imagine prompt a yellow bird`

GPU Minutes

The Midjourney Bot processes each Permutation Prompt variation as an individual [Job](#), each Job consumes [GPU minutes](#).

Combo Prompts that create more than five Jobs will show a confirmation message before they begin processing.

Prompt Text Variations

The prompt `/imagine prompt a naturalist illustration of a {pineapple, blueberry, rambutan, banana} bird` will create and process four Jobs:



a naturalist illustration of a pineapple bird



a naturalist illustration of a blueberry bird



a naturalist illustration of a rambutan bird



a naturalist illustration of a banana bird

Prompt Parameter Variations

The prompt `/imagine prompt a naturalist illustration of a fruit salad bird --ar {3:2, 1:1, 2:3, 1:2}` will create and process four Jobs with different aspect ratios:



a naturalist illustration of a fruit salad bird --ar 3:2



a naturalist illustration of a fruit salad bird --ar 1:1



a naturalist illustration of a fruit salad bird --ar 2:3



a naturalist illustration of a fruit salad bird --ar 1:2

The prompt `/imagine prompt a naturalist illustration of a fruit salad bird --{v 5, niji, test}` will create and process three Jobs using different Midjourney [Model Versions](#):



a naturalist illustration of a fruit salad
bird --v 5

a naturalist illustration of a fruit salad
bird --niji

a naturalist illustration of a fruit salad
bird --test

...



Nick St. Pierre
@nickfloats

Testing Midjourneys new /describe feature.

You can now use the /describe command and upload an image to get four text prompts that try to describe the image.

🧵 Thread with side by sides of original prompts & image (left) vs /describe prompt & image (right)



1:37 PM · Apr 3, 2023 · 748.8K Views

Introducing /describe for image2text on Midjourney

- Use the /describe command and upload an image to get 4 text prompts that try to describe the image
- Click buttons underneath the command to generate images for each of the prompts

/describe output:

father reading to daughter for a home advertisement, adobe, in the style of soft atmospheric scenes, wavy, precise craftsmanship, lively storytelling, hasselblad 1600f, uhd image, texture-rich surfaces, commission for --ar 16:9

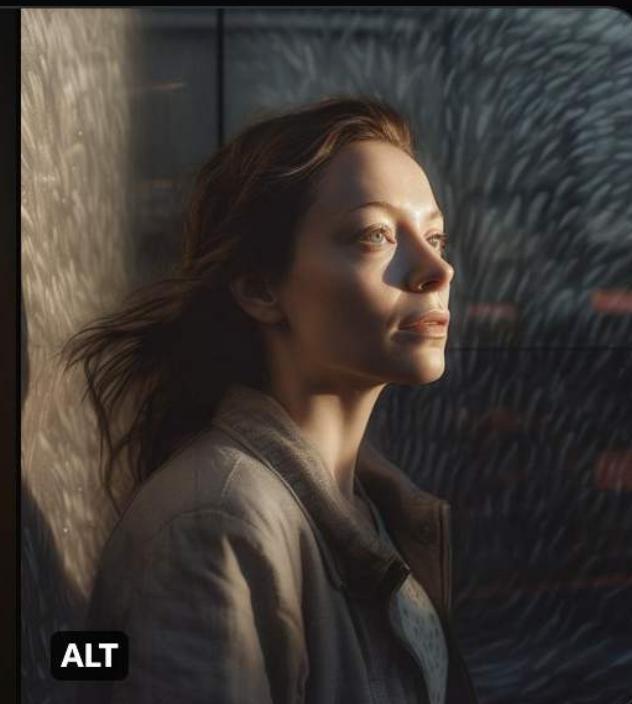
Original (left)
/describe(right)



/describe output:

a woman is standing in the street with her head on a wall, in the style of interplay of light, softbox lighting, michal lisowski, portraits with soft lighting, underexposure, meredith marsone, leica m6, realist portrait

Original (left)
/describe (right)



Introducing the Repeat feature

- Type `--repeat` with a number are your job to run that job that many times
- For example `/imagine cats --repeat 5` will create five 2x2 grids of cats
- Try mixing this with other arguments like `--chaos` to radically increase your pace of exploration

DavidH 04/04/2023 12:51 PM

Heya **@everyone** we'd love your help testing a new version of our V5 model today specifically tuned on anime aesthetics (NijiJourney v5).

You can enable it by typing `/settings` and clicking `niji version 5` or by typing `--niji 5` after your prompts

a pack of lions in the style of Tintoretto's The Last Supper (v5)



niji v4



niji v5





Nick St. Pierre ✅

@nickfloats

...

The Moodboard feature in the Midjourney Alpha is powerful. The prompt for this was "A man standing by a horse".

Moodboard lets you reference an entire collection of images in your prompt. For this, I put a bunch of my Gucci images into a collection & added it as a moodboard.



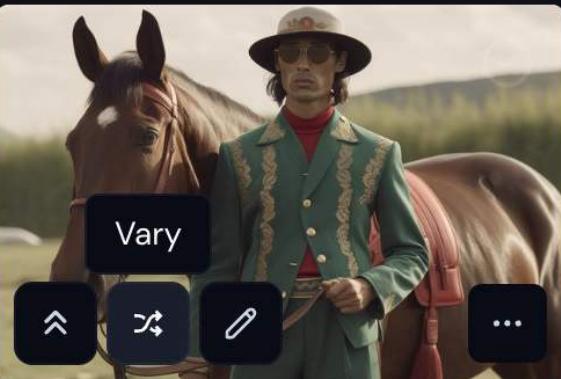
6:42 PM · Apr 5, 2023 · 445.9K Views

Imagine

⚡ Today, 21:35



a man standing by a horse -version 5 -ar 3:2 -iw 1

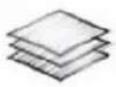


Gucci Moodboard + a man riding a black stallion through the country



THE FUTURE: AUTOMINTER

Artwork type



Layered Images

Upload image layers to combine randomly



AI Generator

Let autominter generate your artwork with AI



Upload Final Images

Bulk upload your completed images

new

coming soon

Generate collection with AI

Detailed description of the artwork:

example: a head portrait of a robot dog

Generate Reference Image

THE FUTURE: AUTOMINTER

Generate collection with AI

Detailed description of the artwork:

a portrait of a robot dog

[Generate Reference Image](#)

Pick the base image:



THE FUTURE: AUTOMINTER

Generate collection with AI

X Reset Image

Number of images



Generate Artwork

Generate AI Artwork

Please confirm generation of 3500 NFTs

Generate Artwork (3500)

Traits

Add traits and quantities which each trait should occur

Trait name

THE FUTURE: AUTOMINTER



#9 of 3500



#10 of 3500



#11 of 3500



#12 of 3500



#13 of 3500



#14 of 3500

"Withdrawls"

The first-ever AI-generated collection using our new AI Art tool.

This project has been created by several members of the [@EVMavericks DAO](#) and it celebrates Shanghai ([#Shapella](#)) with everyone who has followed the upgrade in much darker times. So, this is for everyone that can see *into the dark!* 🐣

Through this new collab with the team, [AutoMinter](#) has secured 100 guaranteed spots through the allowList.

If you register using the Join Allowlist button below, you will also get one entry for a raffle to win one of five NFTs from this collection.

It's closing very soon so register now.

[Join Allowlist](#)



Withdrawls @Withdrawls · 1h

The Grandmaster of them owl.... I give you Vitowlik Buterin!! One of the rare Herowls in the @withdrawls powlyments! Hoo will mint @VitalikButerin? #Shapella #NFT #publicgoods. Mint coming soon!! See link in profile for allowlist 🙌



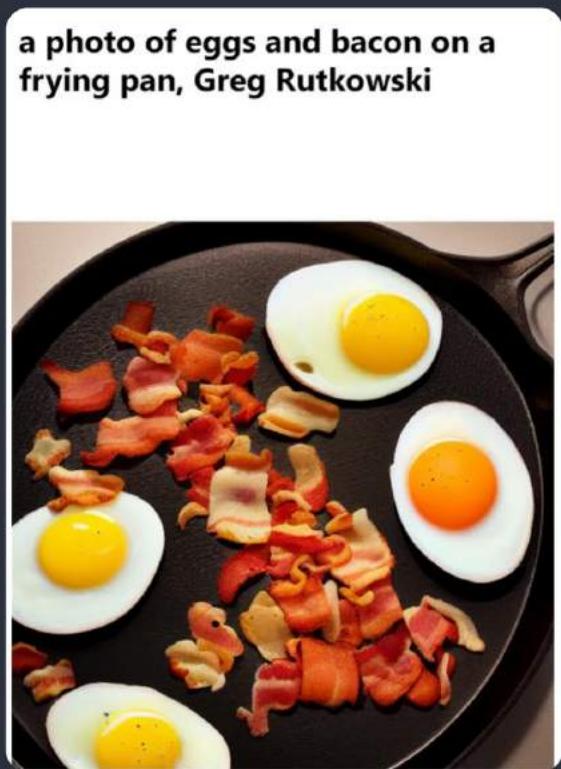
STABLE DIFFUSION - PROMPT BLENDING & WEIGHTING

- 3 DIFFERENT WAYS TO WEIGHT PROMPTS
- HOW TO BLEND KEYWORDS

You can increase the emphasis of egg in the image by adding () to the keyword **egg**:

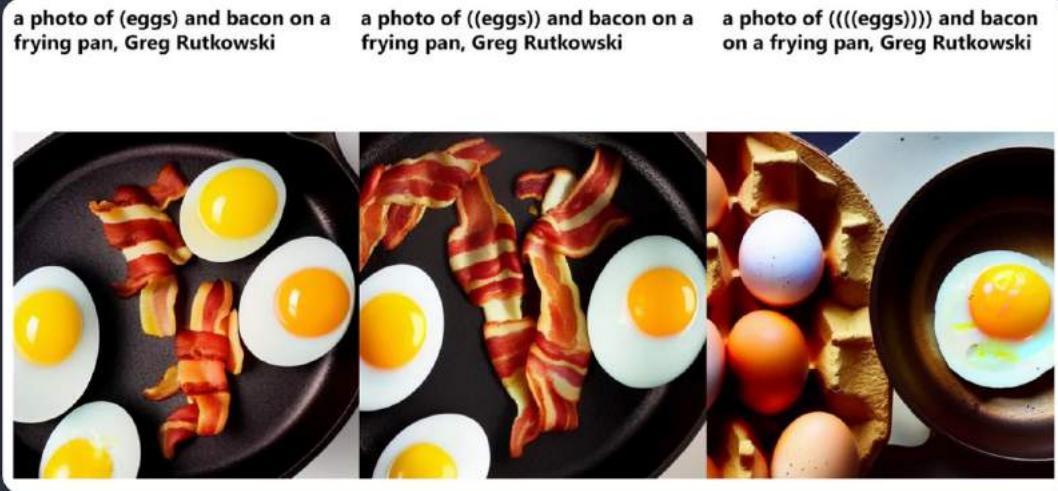
Adjust keyword strength with () and []

Use () to increase the weight of a keyword. Use [] to decrease. Below is a famous example taken from Web UI's feature showcase. This is the original image:



a photo of eggs and bacon on a frying pan, Greg Rutkowski

Starting image with equal amount of eggs and bacons.



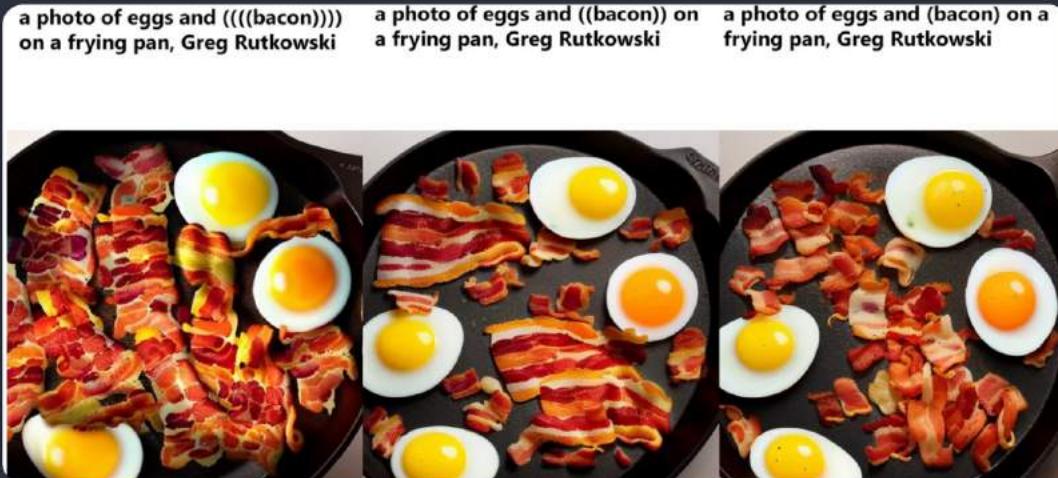
a photo of (eggs) and bacon on a frying pan, Greg Rutkowski

a photo of ((eggs)) and bacon on a frying pan, Greg Rutkowski

a photo of (((eggs))) and bacon on a frying pan, Greg Rutkowski

Generate more eggs by putting () around "eggs".

Likewise, you can do the same for **bacon**:



a photo of eggs and (((bacon))) on a frying pan, Greg Rutkowski

a photo of eggs and ((bacon)) on a frying pan, Greg Rutkowski

a photo of eggs and (bacon) on a frying pan, Greg Rutkowski

Generate more bacons by putting () around "bacons".

As you can see, the more weight you put on a keyword, the more bias the image towards the keyword. The effect of multiple parenthesis is multiplicative. Each parenthesis represents 1.1 times increase in weight. In other words:

```
(keyword): 1.1  
((keyword)): 1.21  
(((keyword))): 1.33
```

Similarly, the effect of multiple brackets is

```
[keyword]: 0.9  
[[keyword]]: 0.81  
[[[keyword]]]: 0.73
```

Adjust keyword strength using weight

In AUTOMATIC1111 GUI, instead of using brackets, you can assign a weight to a keyword directly. The syntax is

```
(keyword: weight)
```

For example, the followings are equivalent

```
(keyword)  
((keyword))  
(((keyword)))
```

```
(keyword: 1.1)  
(keyword: 1.21)  
(keyword: 1.33)
```

Suppress unwanted objects with negative prompts

Another way to suppress objects or styles you do not want is to use **negative prompts**. In fact, many practitioners use boilerplate negative prompts. Below is an example for portraits.

```
((((ugly))), (((duplicate))), ((morbid)), ((mutilated)), [out of frame], extra fingers, mutated hands, ((poorly drawn hands)), ((poorly drawn face)), (((mutation))), (((deformed))), ((ugly)), blurry, ((bad anatomy)), (((bad proportions))), ((extra limbs)), cloned face, (((disfigured))), out of frame, ugly, extra limbs, (bad anatomy), gross proportions, (malformed limbs), ((missing arms)), ((missing legs)), (((extra arms))), (((extra legs))), mutated hands, (fused fingers), (too many fingers), (((long neck)))
```

All you need to do is to list *everything* you do not want to see.

[person1 : person2: amount]



to blend two faces at different degree. Below is an example



[joe biden: donald trump :0.1]

[joe biden: donald trump :0.5]

[joe biden: donald trump :0.75]

Blending two keywords to mix two faces.

The last number ranges from 0 to 1. As an example, if the number of sampling steps is 40, specifying amount = 0.75 swaps the keyword `joe biden` to `donald trump` at step $40 * 0.75 = 30$ steps.

[Emma Watson: Amber heard: 0.85], 40 steps:



Blending Emma Watson and Amber Heard.

[Evan Rachel Wood: Jennifer Lawrence: 0.75], [Jennifer Aniston: Jennifer Connelly: 0.85], 40 steps:



Blending Evan Rachel Wood, Jennifer Lawrence, Jennifer Aniston and Jennifer Connelly.

CONTROLNET

- CONTROLNET IS A NEURAL NETWORK STRUCTURE THAT CAN CONTROL DIFFUSION MODELS BY ADDING EXTRA CONDITIONS.
- IT WORKS BY MODIFYING THE TEXT PROMPT EMBEDDING WITH ANOTHER EMBEDDING DERIVED FROM AN ADDITIONAL INPUT.
- THIS INPUT CAN BE ANYTHING THAT PROVIDES MORE INFORMATION OR GUIDANCE FOR THE IMAGE GENERATION PROCESS, SUCH AS AN IMAGE, A SKETCH, A POSE SKELETON, A DEPTH MAP, OR A SCRIBBLE.

CONTROLNET

- THE REVOLUTIONARY THING ABOUT CONTROLNET IS ITS SOLUTION TO THE PROBLEM OF **SPATIAL CONSISTENCY**. WHEREAS PREVIOUSLY THERE WAS SIMPLY NO EFFICIENT WAY TO TELL AN AI MODEL WHICH PARTS OF AN INPUT IMAGE TO KEEP, CONTROLNET CHANGES THIS BY INTRODUCING A METHOD TO ENABLE STABLE DIFFUSION MODELS TO USE ADDITIONAL INPUT CONDITIONS **THAT TELL THE MODEL EXACTLY WHAT TO DO.**
- TLDR: **PIX2PIX BUT GODMODE**



Control Stable Diffusion with Canny Edge Maps

Image 

Prompt
3 people looking at a metal pyramid

Run

Advanced options

Images

Image Resolution

Canny low threshold

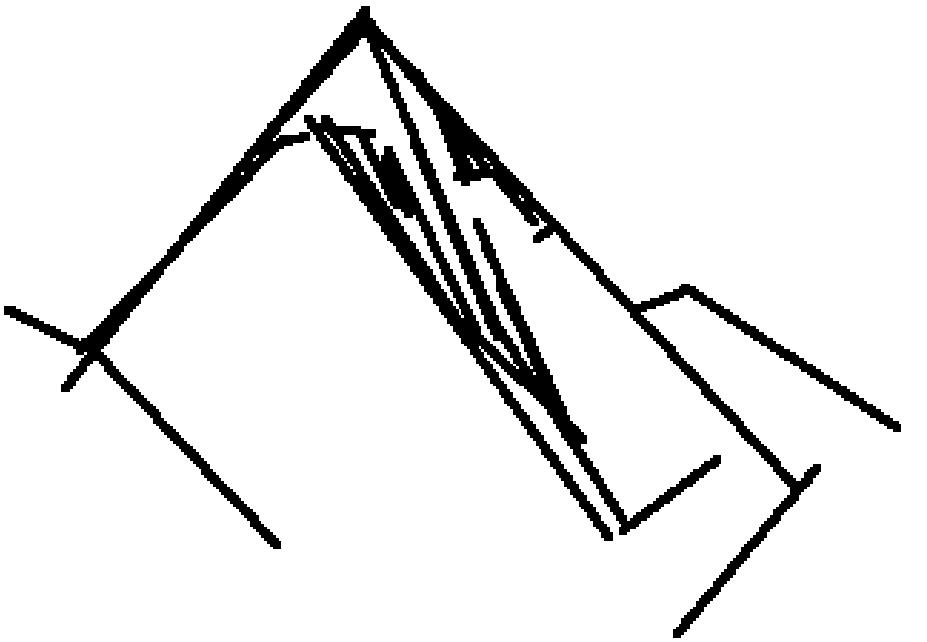
Canny high threshold

Steps

Guidance Scale

Seed

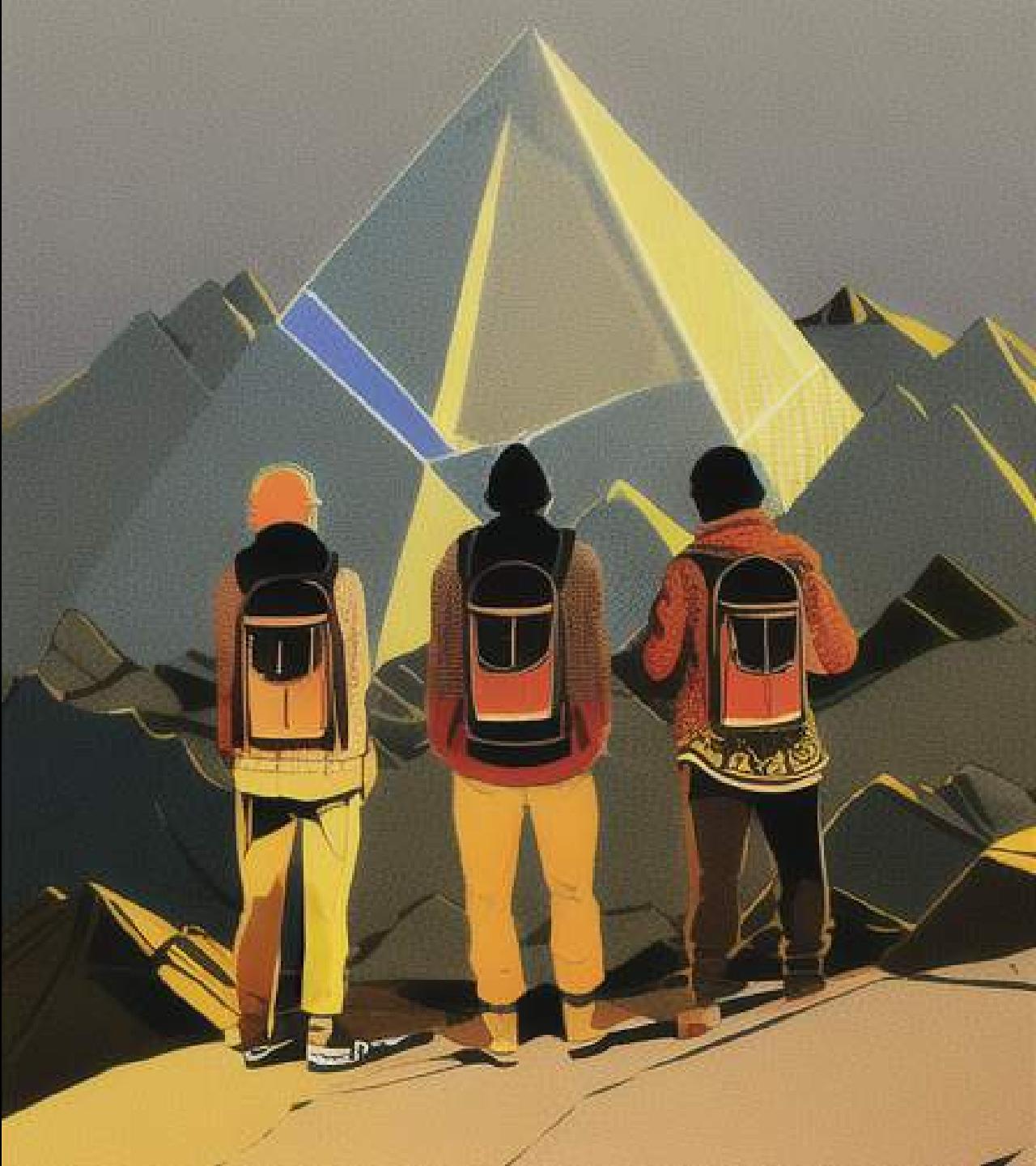
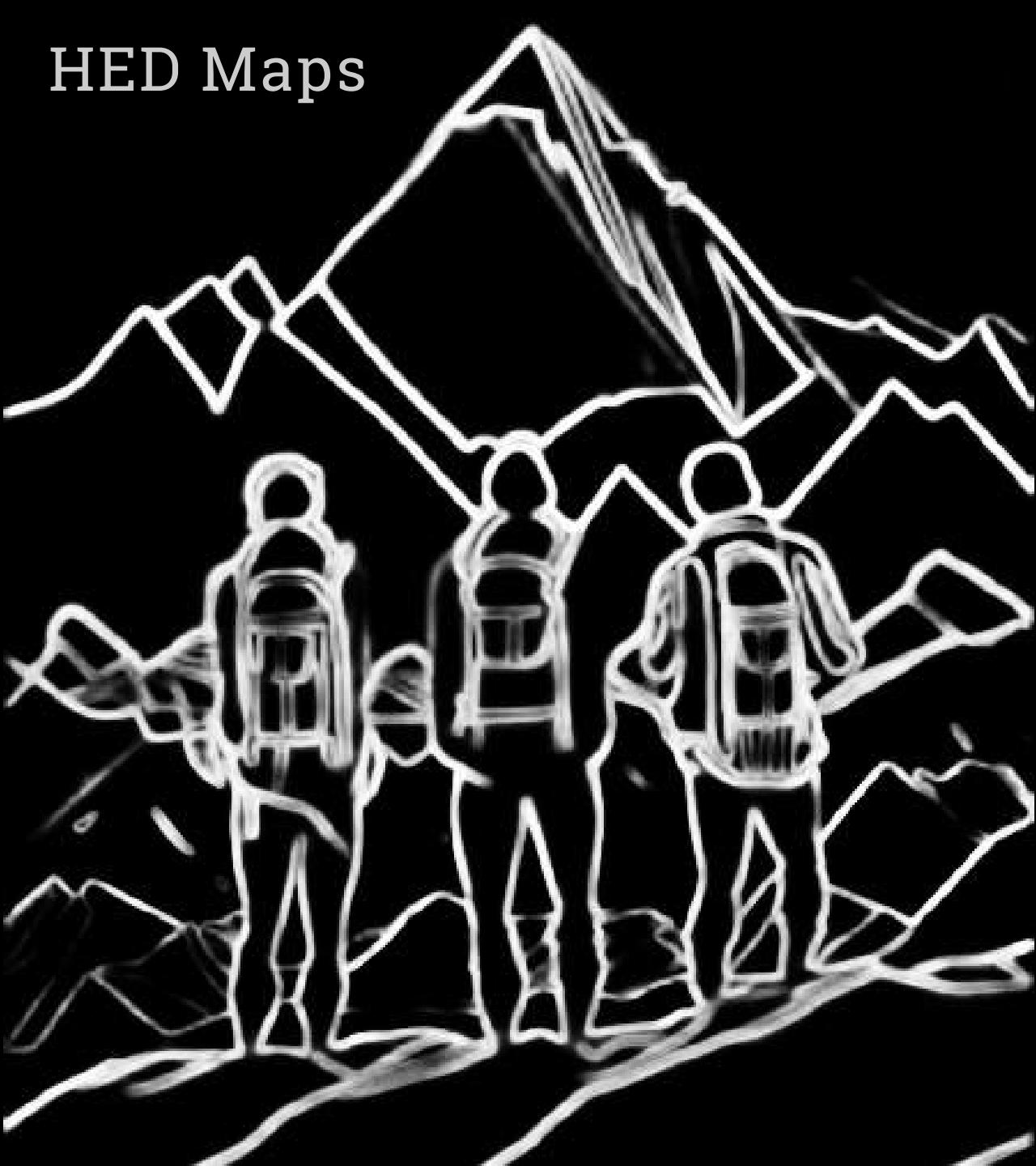




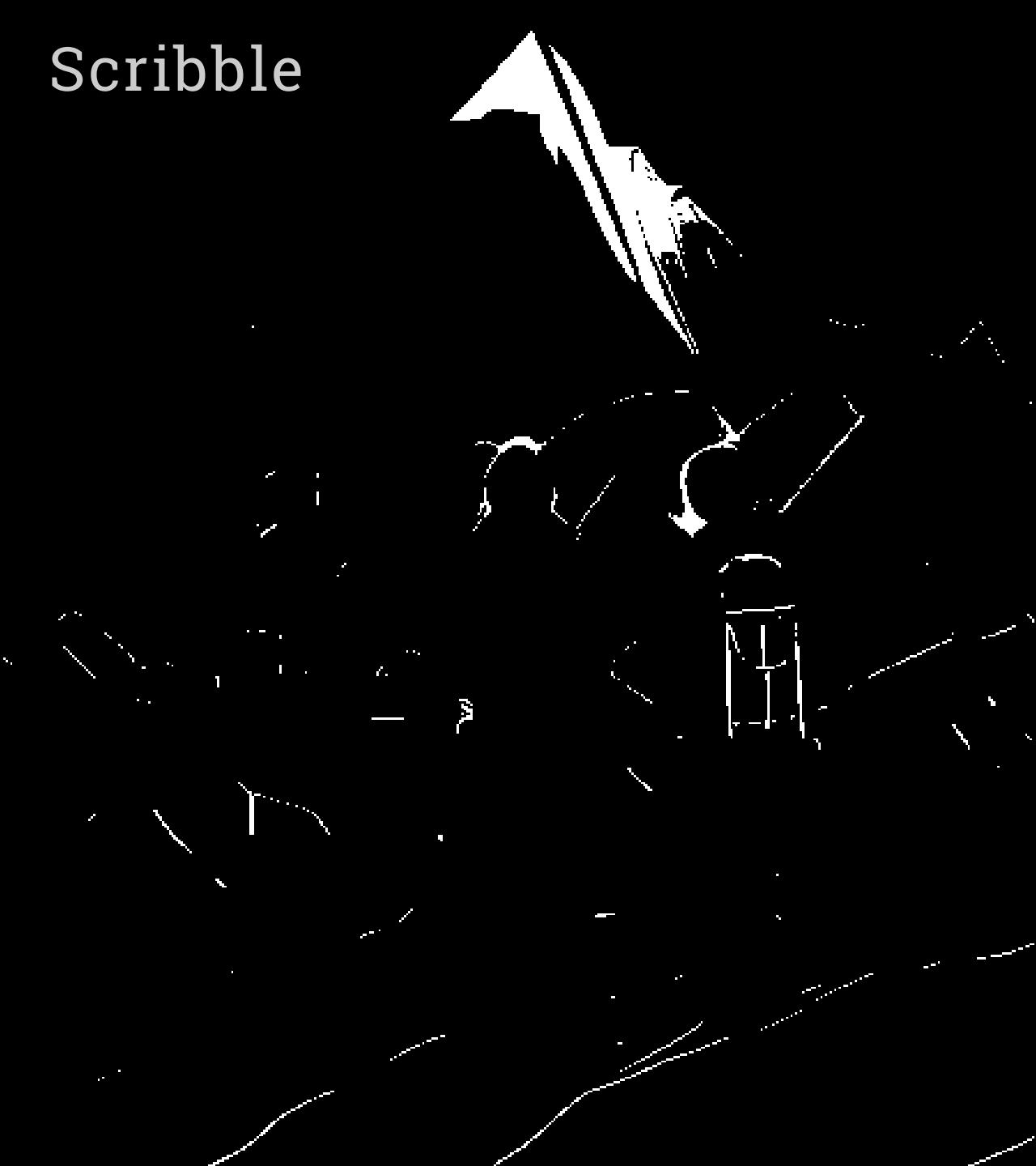
Hough Line Maps



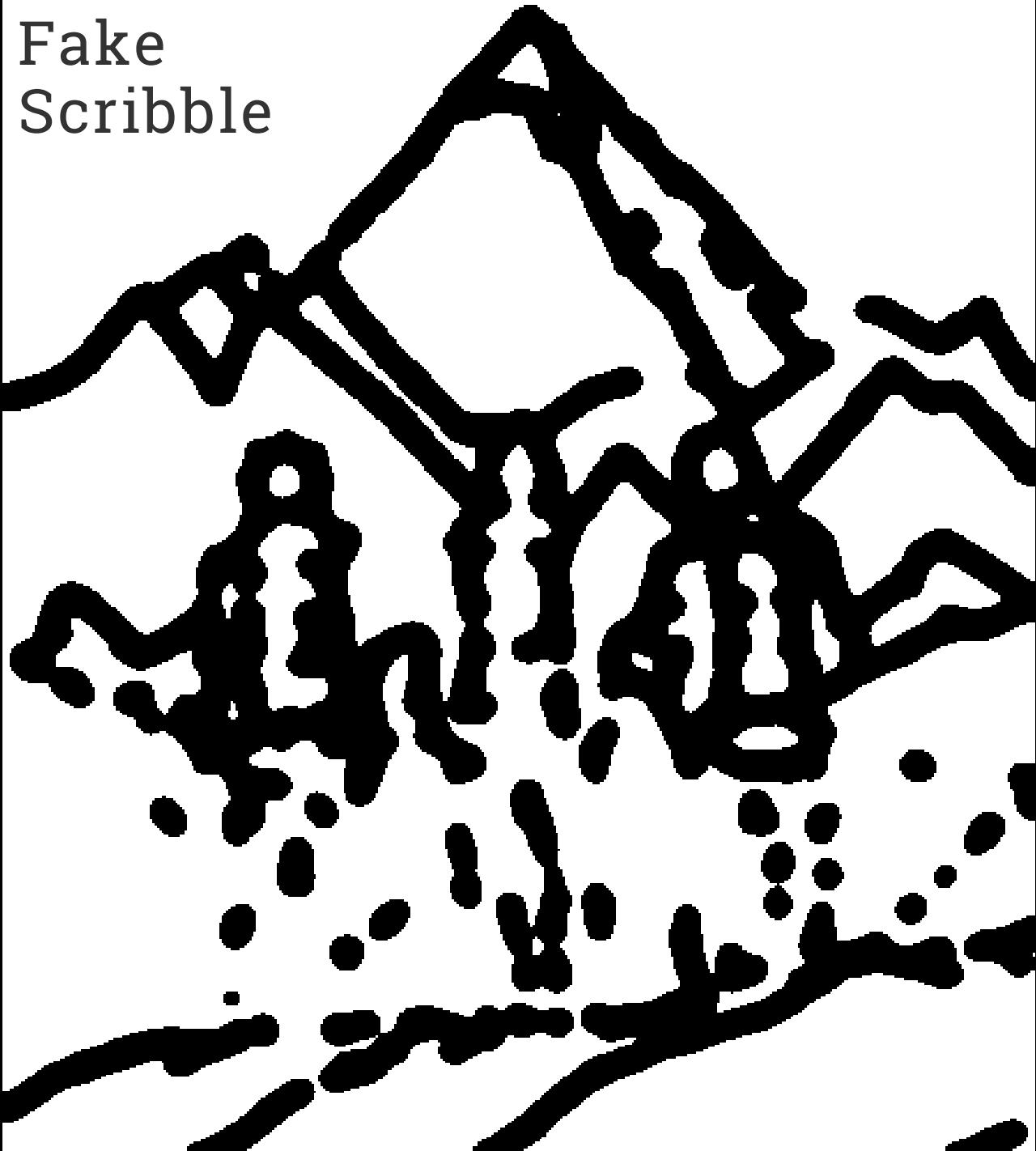
HED Maps



Scribble



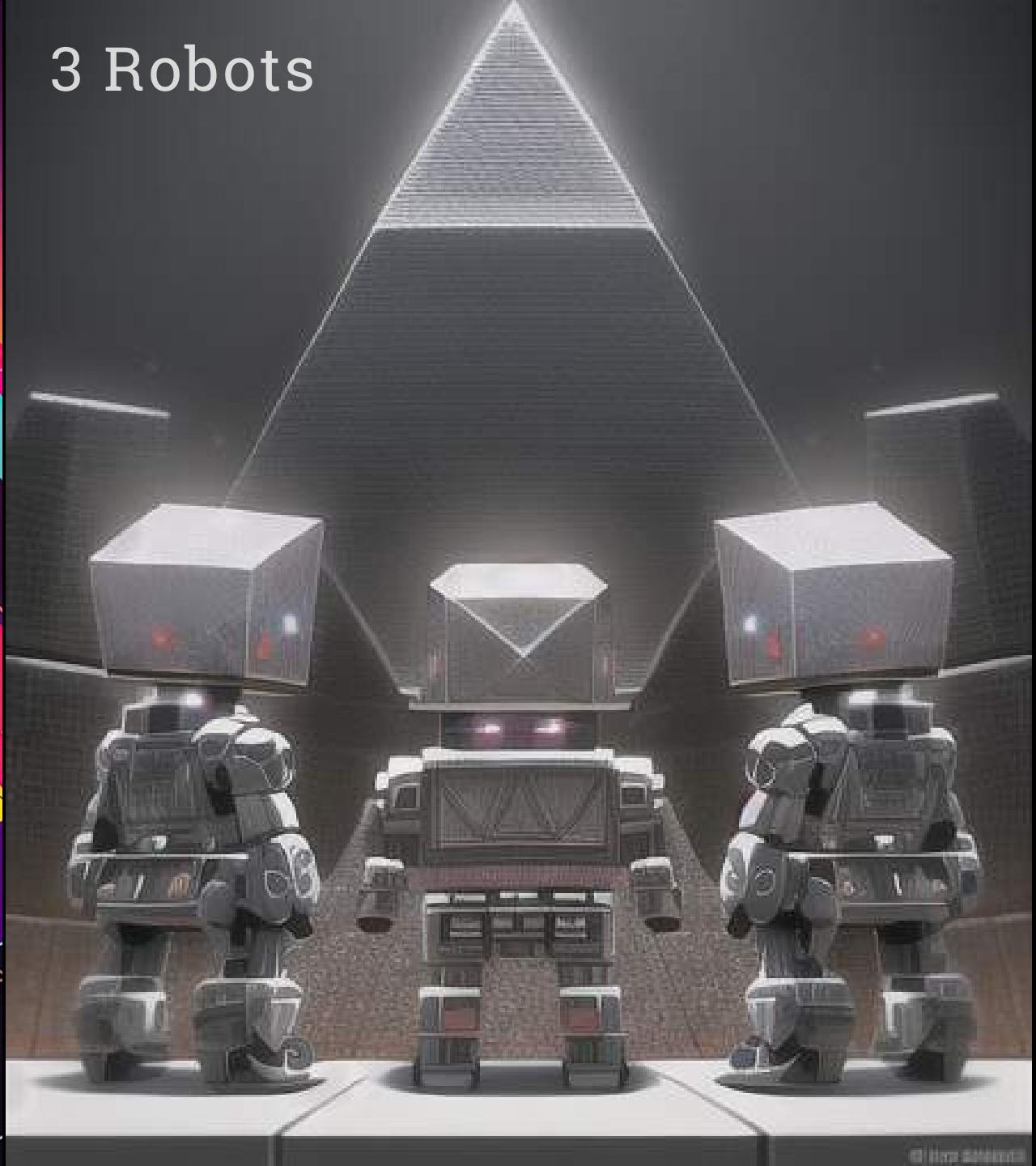
Fake
Scribble



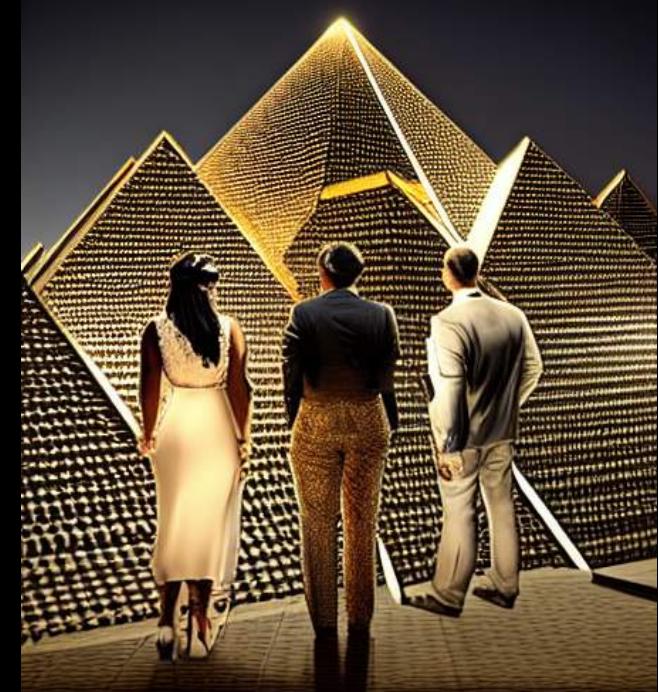
Pose



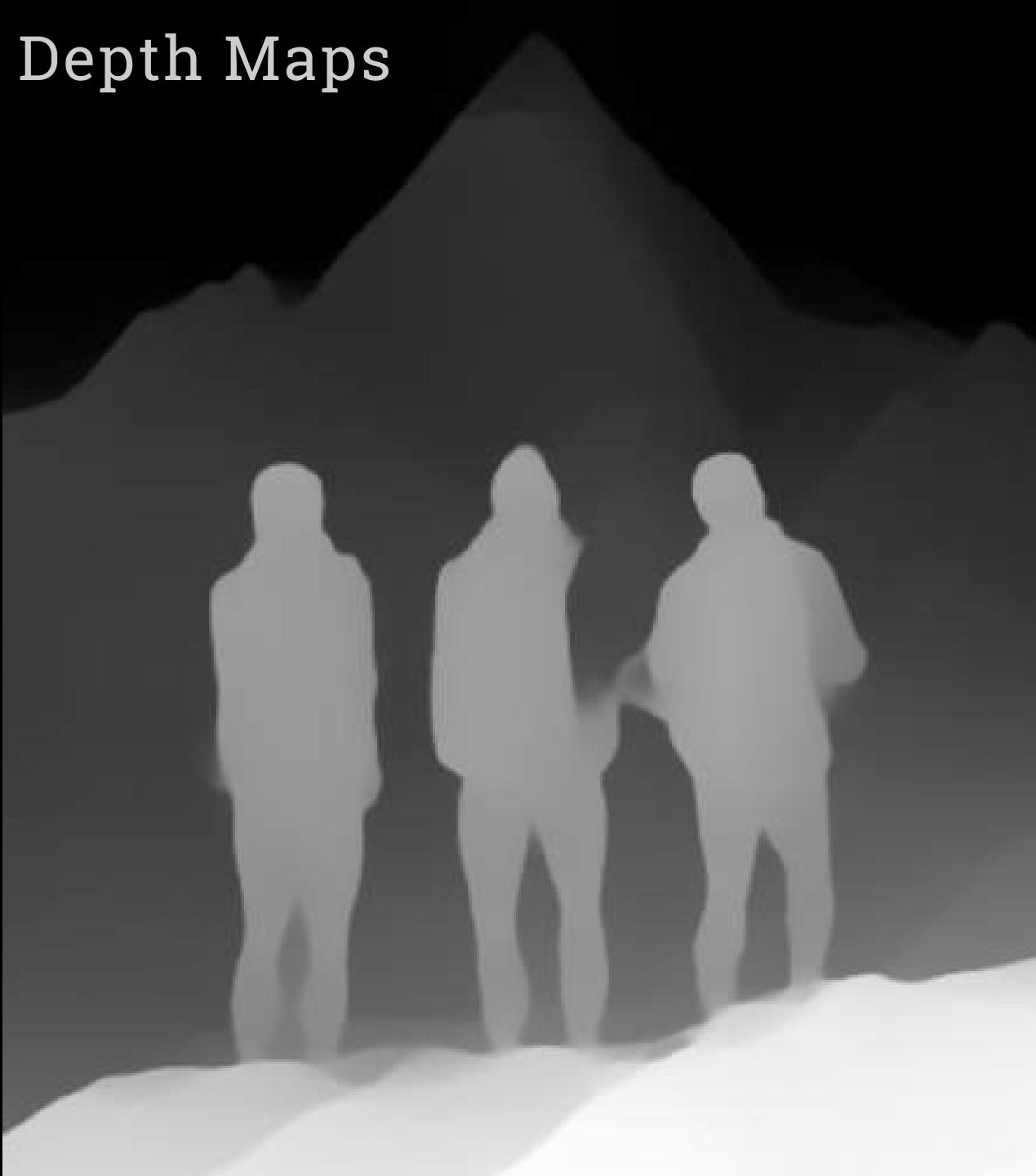
3 Robots



Segmentation Maps



Depth Maps



Normal Maps







Anonymous ✅
@TheMouseCrypto

...

Cameras and lenses 📸 - Midjourney

I've compiled a list of some of the best professional cameras and lenses for various scenarios such as camera angle, lighting, ambiance, styling, and genre. Of course, there may be other similar lists out there, but in

→ Camera Angle and Shot Type 📸

Eye-Level Shot:
Sony Alpha a7 III camera with a Sony FE 24-105mm f/4 G OSS lens

Low-Angle Shot:
Sony Alpha a7 III camera with a Sony FE 16-35mm f/2.8 GM lens

High-Angle Shot:
Nikon D850 camera with a Nikkor 24-70mm f/2.8E ED VR lens

Extreme low-angle shot:
Canon EF 14mm f/2.8L II USM lens on a Canon EOS 5D Mark IV camera with a low-angle tripod

Extreme high-angle shot:
Canon EF 70-200mm f/2.8L IS III USM lens on a Canon EOS 5D Mark IV camera with a high-angle tripod

Side-Angle (Side-View):
Panasonic Lumix GH5S camera with a Panasonic Lumix 12-35mm f/2.8 II lens

Shot from Behind:
Nikon D850 camera with a Nikkor 70-200mm f/2.8E FL ED VR lens

Close-up shot:
Canon EF 50mm f/1.2L USM lens on a Canon EOS 5D Mark IV camera

Medium shot:
Canon EF 24-70mm f/2.8L II USM lens on a Canon EOS 5D Mark IV camera

Full shot:
Canon EF 16-35mm f/2.8L III USM lens on a Canon EOS 5D Mark IV camera

Extreme Close-Up Shot:
Canon EF 100mm f/2.8L Macro IS USM lens IS USM lens

Ground-Level Shot:
Canon EOS-1DX Mark III camera with a Canon EF 24-70mm f/2.8L II USM lens

→ AMBIANCE & STYLING 🎨

Dark and moody:
Sony a7S III with Sony FE 50mm f/1.4 ZA lens

Bright and vibrant:
Canon EOS R6 with Canon EF 16-35mm f/2.8L III USM lens

Fantasy:
Fujifilm X-T4 with Fujinon XF 56mm f/1.2 R lens

Historical:
Fujifilm GFX 100S with Fujinon GF 23mm f/4 R LM WR lens or Nikon Z7 II with Nikkor Z 50mm f/1.2 S lens

Adventure/Action:
GoPro HERO10 Black

Documentary:
Canon EOS C300 Mark III with Canon CN-E 24mm T1.5 L F lens

Horror:
Blackmagic Pocket Cinema Camera 6K Pro with Sigma 18-35mm f/1.8 DC HSM Art lens

Mystical:
Nikon D6 with Nikon AF-S NIKKOR 24mm f/1.4G ED lens

Romantic:
Canon EOS R with Canon RF 50mm f/1.2L USM lens

Rustic:
Panasonic Lumix GH5S with Sigma 18-35mm f/1.8 DC HSM Art lens

→ LIGHTING 🌞

Sunny:
Canon EOS 5D Mark IV camera with a Canon EF 24-70mm f/2.8L II USM lens

Partly Cloudy:
Nikon D850 camera with a Nikkor 24-70mm f/2.8E ED VR lens

Rainy:
Sony Alpha a7 III camera with a Sony FE 16-35mm f/2.8 GM lens and waterproof housing

Snowy:
Canon EOS-1D X Mark II camera with a Canon EF 24-105mm f/4L IS II USM lens and waterproof housing

Overcast:
Panasonic Lumix GH5S camera with a Panasonic Lumix 12-35mm f/2.8 II lens

Foggy:
Sony Alpha a7R IV camera with a Sony FE 70-200mm f/2.8 GM OSS lens

Hazy:
Canon EOS R6 camera with a Canon RF 24-105mm f/4L IS USM lens

→ TIME OF THE DAY 🕒

Sunrise:
Sony A7R IV camera with a Canon RF 15-35mm f/2.8L IS USM lens

Morning:
Fujifilm X-T4 camera with a Fujinon XF 16-55mm f/2.8 R LM WR lens

Afternoon:
Sony A7 III camera with a Sony FE 70-200mm f/2.8 GM OSS lens

Golden Hour:
Canon EOS R5 camera with a Canon RF 50mm f/1.2L USM lens

Thanks for this! I'm creating tables in ChatGPT that describe the key elements in a photo, and then different options for each. You can build your prompt by choosing one from each column. Doing photography now, but want to do it for paintings, drawings, etc later.

Sure, here's an example table for the portrait photograph composition:

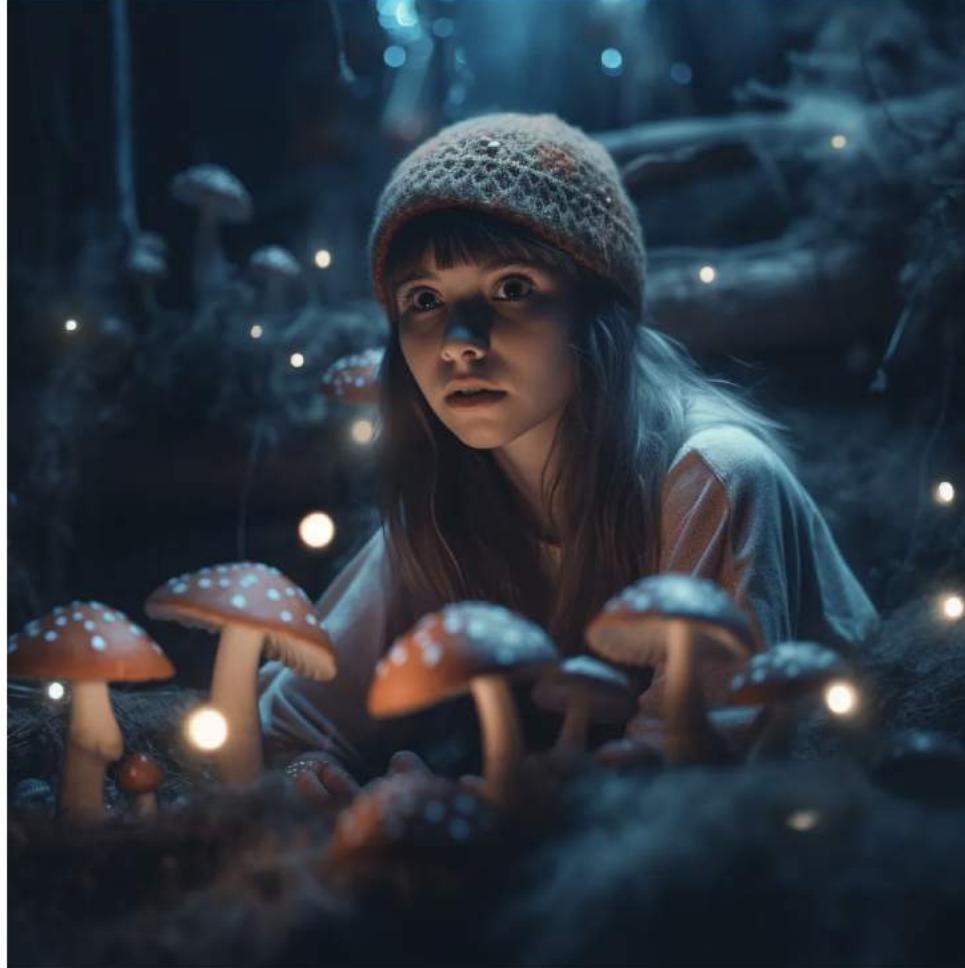
The table below provides a detailed breakdown of various portrait photography compositions across different subjects and settings. Each row represents a unique combination of subject, camera angle, location, and lighting setup, along with their corresponding camera type, lens, time of day, color palette, clothing, accessories, emotion, composition, aperture, shutter speed, and ISO setting.

Subject	Camera Angle	Location	Camera Type	Lens Type	Lighting	Time of Day	Color Palette	Clothing	Accessories	Emotion or Feeling	Composition	Aperture Settings	Shutter Speed	ISO Setting
Young Woman	Low Angle	Studio	DSLR	50mm Prime	Softbox, Reflector	Midday	Neutral Tones	Black Dress	Simple Earrings	Confidence	Close-Up	f/2.8	1/125	ISO 400
Elderly Man	High Angle	Outdoor Garden	Mirrorless	85mm Prime	Natural Light, Reflector	Late Afternoon	Warm Tones	Cardigan and Collared Shirt	Glasses	Serenity	Medium Shot	f/5.6	1/250	ISO 200
Child	Eye Level	Beach	Smartphone	Wide Angle	Golden Hour, Fill Flash	Early Evening	Vibrant Tones	Swimsuit	Sun Hat and Sunglasses	Joy	Full Body	f/4.0	1/60	ISO 100
Businessman	Slight Tilt	Office	Medium Format	80mm Prime	Studio Lights, Reflectors	Midday	Monochrome	Suit and Tie	Briefcase	Confidence and Authority	Close-Up	f/8.0	1/250	ISO 800
Artist	Side View	Art Studio	DSLR	35mm Prime	Natural Light, Fill Flash	Late Morning	Warm Tones	Bohemian Clothing	Scarf and Rings	Creativity	Medium Shot	f/2.0	1/60	ISO 200
Athlete	Dynamic	Outdoor Track	DSLR	70-200mm Zoom	Natural Light, Fill Flash	Early Morning	Vibrant Tones	Sports Uniform	Headphones and Sneakers	Energy and Determination	Full Body	f/4.0	1/500	ISO 400
Family	Candid	Living Room	Mirrorless	35mm Prime	Natural Light, Fill Flash	Late Afternoon	Neutral Tones	Casual Clothing	No Accessories	Warmth and Togetherness	Group Shot	f/3.5	1/125	ISO 160
Musician	Dramatic	Concert Venue	DSLR	24-70mm Zoom	Stage Lights, Spotlights	Night	High Contrast	Leather Jacket and Jeans	Guitar	Passion and Artistry	Close-Up	f/2.8	1/60	ISO 3200
Chef	Hands-On	Restaurant Kitchen	Mirrorless	50mm Prime	Softbox, Fill Flash	Midday	Warm Tones	Chef Coat and Apron	Cooking Utensils	Confidence and Creativity	Medium Shot	f/4.0	1/100	ISO 800
Couple	Romantic	City Park	DSLR	50mm Prime	Natural Light, Reflector	Early Evening	Soft Tones	Formal Attire	Flowers and Wine	Love and Connection	Close-Up	f/2.0	1/250	ISO 400

Location	Time of Day	Weather	Lighting	Season	Terrain	Vegetation	Water Features	Wildlife	Perspective	Color Palette	Composition	Camera Type	Lens Type	Aperture Settings	ISO Setting	Emotion or Feeling
	Day	Night	Sunrise	Sunset	Cloudy	Rainy	Wind	Thunderstorms	High Angle	Low Angle	Neutral	Rule of Thirds	Leading Lines	Wide Angle	Telephoto	Portrait
Grand Canyon	Sunrise	Clear	Natural	Summer	Canyon	Cacti	River	None	Aerial	Warm	Panoramic Shot	DSLR	Wide	f/8	ISO 200	Wonder and Amazement
Swiss Alps	Sunset	Cloudy	Golden	Winter	Mountains	Pine Trees	Frozen Lake	Deer	Low Angle	Cool	Rule of Thirds	Mirrorless	Telephoto	f/16	ISO 100	Calm and Serene
African Savannah	Midday	Sunny	Harsh	Spring	Grasslands	Acacia Tree	Watering Hole	Elephants	Eye Level	Vibrant	Symmetrical Balance	Point and Shoot	Normal	f/4	ISO 400	Heat and Intensity
Pacific Northwest	Dawn	Foggy	Soft	Fall	Forest	Moss	Creek	Bears	Wide Angle	Earthy	Leading Lines	Smartphone	Fisheye	f/2.8	ISO 800	Peaceful and Mysterious
Iceland	Dusk	Overcast	Moody	Summer	Glacier	Tundra	Waterfall	Puffins	High Angle	Cool	Symmetrical Balance	DSLR	Ultra Wide	f/11	ISO 400	Ethereal and Mystical
Australian Outback	Midday	Sunny	Harsh	Winter	Desert	Spinifex	Dry Creek Bed	Kangaroos	Eye Level	Warm	Rule of Thirds	Mirrorless	Telephoto	f/5.6	ISO 200	Harsh and Rugged
Hawaiian Coastline	Afternoon	Clear	Natural	Spring	Beach	Palm Trees	Turquoise Water	Sea Turtles	Low Angle	Vibrant	Leading Lines	Point and Shoot	Normal	f/4	ISO 200	Relaxed and Tranquil
Canadian Rockies	Dawn	Foggy	Soft	Summer	Mountains	Conifers	Glacial Lake	Wolves	High Angle	Cool	Symmetrical Balance	DSLR	Telephoto	f/16	ISO 800	Majestic and Serene
Arizona Desert	Midday	Sunny	Harsh	Fall	Desert	Saguaro Cactus	Dry Canyon	Lizards	Eye Level	Warm	Rule of Thirds	Mirrorless	Ultra Wide	f/8	ISO 400	Heat and Solitude
Scottish Highlands	Sunset	Cloudy	Golden	Winter	Mountains	Heather	Loch	Stags	Low Angle	Cool	Leading Lines	DSLR	Wide	f/5.6	ISO 400	Mystical and Serene

Prompt Blueprint

- IMAGE_TYPE: Macro close-up | GENRE: Fantasy | EMOTION: Quirky | SCENE: A tiny fairy sitting on a mushroom in a magical forest, surrounded by glowing fireflies | ACTORS: Fairy | LOCATION TYPE: Magical forest | CAMERA MODEL: Fujifilm X-T4 | CAMERA LENSE: 100mm f/2.8 Macro | SPECIAL EFFECTS: Infrared photography | TAGS: macro, fantasy, whimsical, fairy, glowing fireflies, magical atmosphere, mushroom, enchanted forest – ar 16:9



- IMAGE_TYPE: Aerial drone shot | GENRE: Fantasy | EMOTION: Awe-inspiring | SCENE: A legendary city floating in the clouds, with magnificent towers and magical gardens | ACTORS: None | LOCATION TYPE: Cloud city | CAMERA MODEL: DJI Mavic 2 Pro | CAMERA LENSE: 28mm f/2.8 | SPECIAL EFFECTS: High dynamic range (HDR) | TAGS: aerial view, floating city, cloud city, magical architecture, legendary, awe-inspiring – ar 16:9



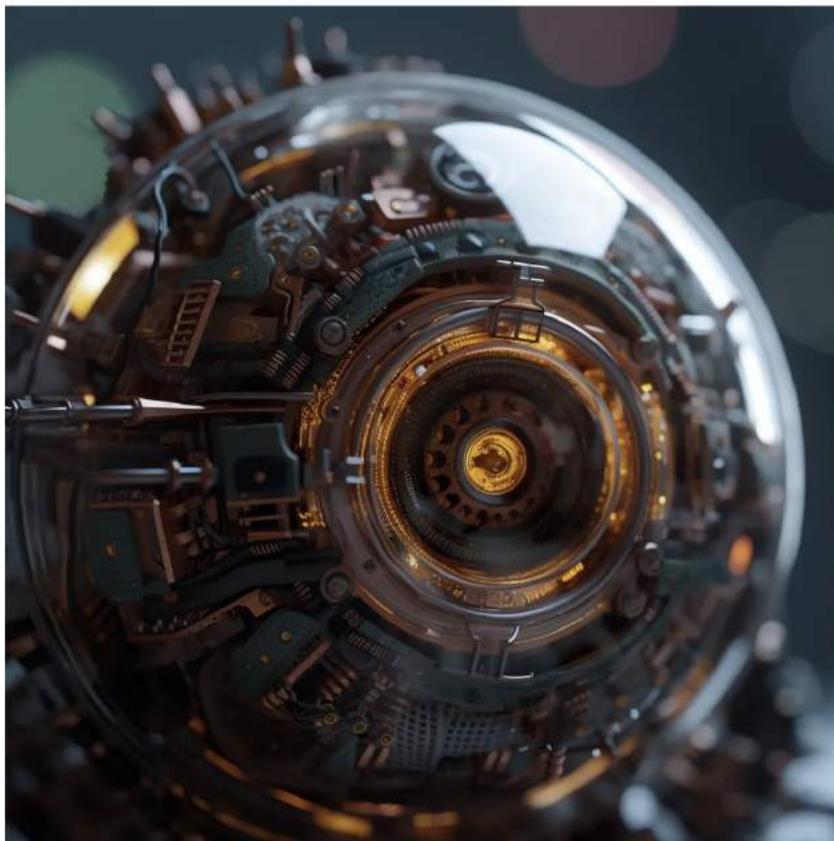
- IMAGE_TYPE: Macro close-up | GENRE: Sci-Fi | EMOTION: Intriguing | SCENE: A close-up of an advanced AI robot's eye with multiple layers of complex circuitry visible | ACTORS: AI robot | LOCATION TYPE: Laboratory | CAMERA MODEL: Canon EOS R5 | CAMERA LENSE: 90mm f/2.8 Macro | SPECIAL EFFECTS: Selective color | TAGS: macro, sci-fi, intriguing, AI robot eye, advanced technology, complex circuitry

ChatGPT Prompt:

```
create 5 prompts with random parameters by using the same construct as 2
prompts below:
```

IMAGE_TYPE: Macro close-up | GENRE: Fantasy | EMOTION: Quirky | SCENE: A tiny fairy sitting on a mushroom in a magical forest, surrounded by glowing fireflies | ACTORS: Fairy | LOCATION TYPE: Magical forest | CAMERA MODEL: Fujifilm X-T4 | CAMERA LENSE: 100mm f/2.8 Macro | SPECIAL EFFECTS: Infrared photography | TAGS: macro, fantasy, whimsical, fairy, glowing fireflies, magical atmosphere, mushroom, enchanted forest – ar 16:9

IMAGE_TYPE: Aerial drone shot | GENRE: Fantasy | EMOTION: Awe-inspiring | SCENE: A legendary city floating in the clouds, with magnificent towers and magical gardens | ACTORS: None | LOCATION TYPE: Cloud city | CAMERA MODEL: DJI Mavic 2 Pro | CAMERA LENSE: 28mm f/2.8 | SPECIAL EFFECTS: High dynamic range (HDR) | TAGS: aerial view, floating city, cloud city, magical architecture, legendary, awe-inspiring – ar 16:9



- IMAGE_TYPE: Aerial drone shot | GENRE: Adventure | EMOTION: Exciting | SCENE: A bird's eye view of an off-road vehicle racing through a remote desert landscape, leaving a trail of dust behind | ACTORS: None | LOCATION TYPE: Desert | CAMERA MODEL: DJI Mavic 2 Pro | CAMERA LENSE: 28mm f/2.8 | SPECIAL EFFECTS: Cinematic color grading | TAGS: aerial view, off-road adventure, desert landscape, racing, thrilling, dust trail



ChatGPT Prompt:

provide 5 more random prompts focusing on Macro close-ups and use very bizarre and unusual scenes

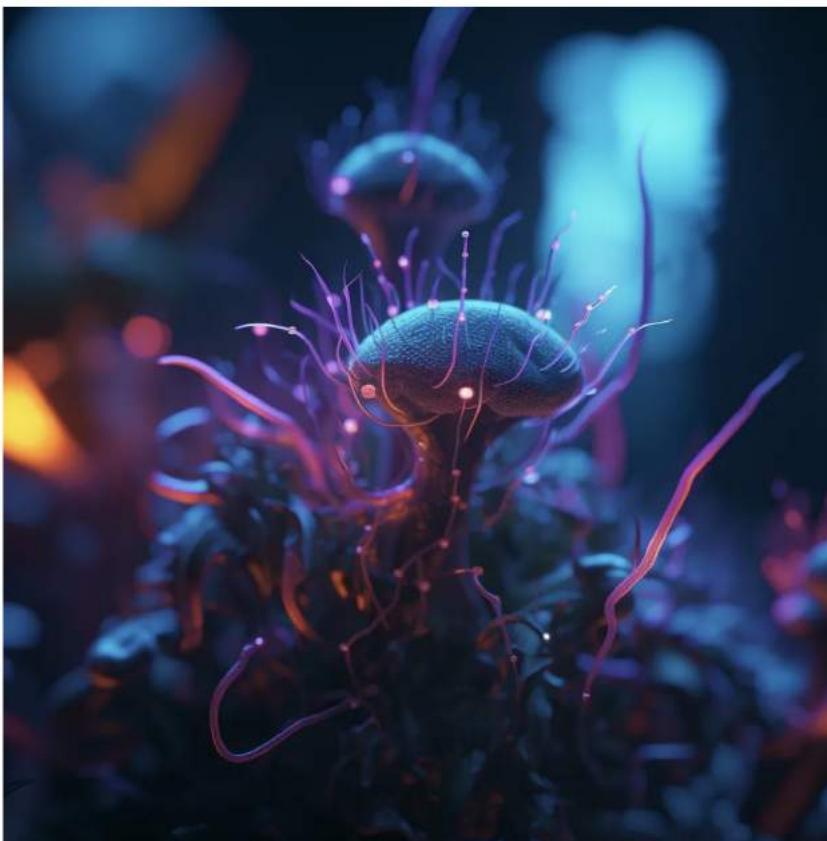
M

provide 5 more random prompts focusing on Macro close-ups and use very bizarre and unusual scenes



1. IMAGE_TYPE: Macro close-up | GENRE: Surrealism | EMOTION: Bewildering | SCENE: A close-up of an alien plant, with colorful, bioluminescent tendrils and bizarre textures | ACTORS: None | LOCATION TYPE: Alien world | CAMERA MODEL: Canon EOS R5 | CAMERA LENS: 100mm f/2.8 Macro | SPECIAL EFFECTS: Bioluminescence | TAGS: macro, surrealism, bewildering, alien plant, bioluminescent tendrils, bizarre textures-ar 1:1
2. IMAGE_TYPE: Macro close-up | GENRE: Science fiction | EMOTION: Fascinating | SCENE: A close-up of a time-traveler's pocket watch, with gears moving in reverse and strange symbols on the face | ACTORS: None | LOCATION TYPE: Time traveler's study | CAMERA MODEL: Nikon D850 | CAMERA LENS: 60mm f/2.8 Macro | SPECIAL EFFECTS: Reverse motion | TAGS: macro, sci-fi, fascinating, time-traveler, pocket watch, strange symbols-ar 4:3
3. IMAGE_TYPE: Macro close-up | GENRE: Fantasy | EMOTION: Enchanting | SCENE: A close-up of a crystal ball revealing a swirling vortex of miniature galaxies and stars | ACTORS: None | LOCATION TYPE: Sorcerer's chamber | CAMERA MODEL: Sony A7R IV | CAMERA LENS: 90mm f/2.8 Macro | SPECIAL EFFECTS: Swirling vortex | TAGS: macro, fantasy, enchanting, crystal ball, miniature galaxies, swirling vortex-ar 9:16
4. IMAGE_TYPE: Macro close-up | GENRE: Horror | EMOTION: Unsettling | SCENE: A close-up of a seemingly ordinary object that morphs into a grotesque, organic form upon closer inspection | ACTORS: None | LOCATION TYPE: Haunted house | CAMERA MODEL: Fujifilm X-T4 | CAMERA LENS: 80mm f/2.8 Macro | SPECIAL EFFECTS: Morphing object | TAGS: macro, horror, unsettling, morphing object, grotesque, bizarre transformation-ar 3:2
5. IMAGE_TYPE: Macro close-up | GENRE: Abstract | EMOTION: Captivating | SCENE: A close-up of a soap bubble's surface displaying an array of intricate, iridescent patterns and unexpected colors | ACTORS: None | LOCATION TYPE: Abstract world | CAMERA MODEL: Canon EOS R5 | CAMERA LENS: 100mm f/2.8 Macro | SPECIAL EFFECTS: Iridescent patterns | TAGS: macro, abstract, captivating, soap bubble, iridescent patterns, unusual colors-ar 16:9

- IMAGE_TYPE: Macro close-up | GENRE: Surrealism | EMOTION: Bewildering | SCENE: A close-up of an alien plant, with colorful, bioluminescent tendrils and bizarre textures | ACTORS: None | LOCATION TYPE: Alien world | CAMERA MODEL: Canon EOS R5 | CAMERA LENS: 100mm f/2.8 Macro | SPECIAL EFFECTS: Bioluminescence | TAGS: macro, surrealism, bewildering, alien plant, bioluminescent tendrils, bizarre textures

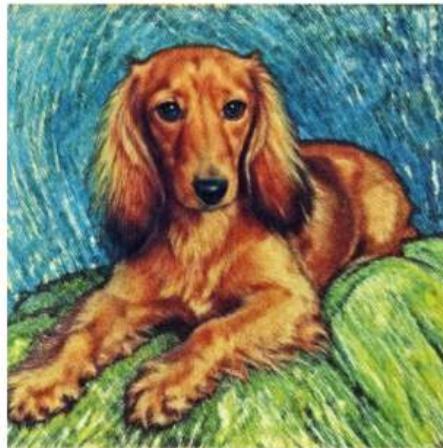


- IMAGE_TYPE: Macro close-up | GENRE: Fantasy | EMOTION: Enchanting | SCENE: A close-up of a crystal ball revealing a swirling vortex of miniature galaxies and stars | ACTORS: None | LOCATION TYPE: Sorcerer's chamber | CAMERA MODEL: Sony A7R IV | CAMERA LENS: 90mm f/2.8 Macro | SPECIAL EFFECTS: Swirling vortex | TAGS: macro, fantasy, enchanting, crystal ball, miniature galaxies, swirling vortex - ar 9:16



Fine-Tuning Stable Diffusion

Input images



Vincent Van Gogh



Michelangelo



Rembrandt



Johannes Vermeer



Pierre-Auguste Renoir



Leonardo da Vinci

Dreambooth

Textual Inversion

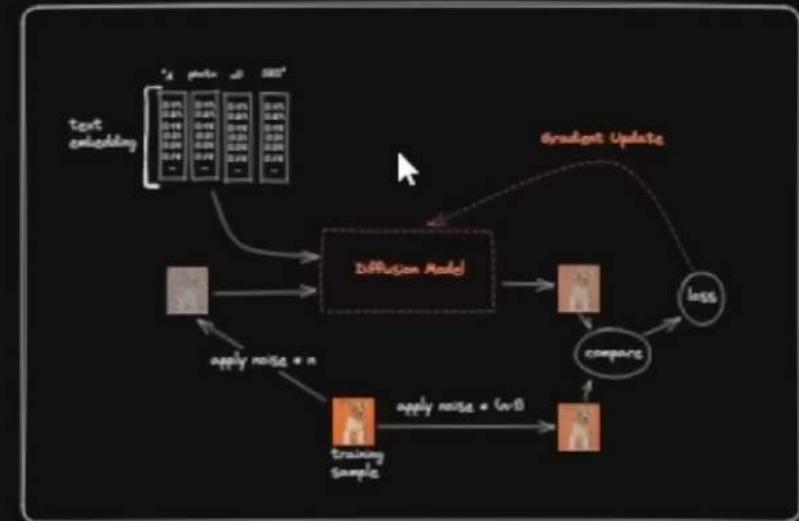
LoRA

Hypernetworks

Aesthetic Embeddings

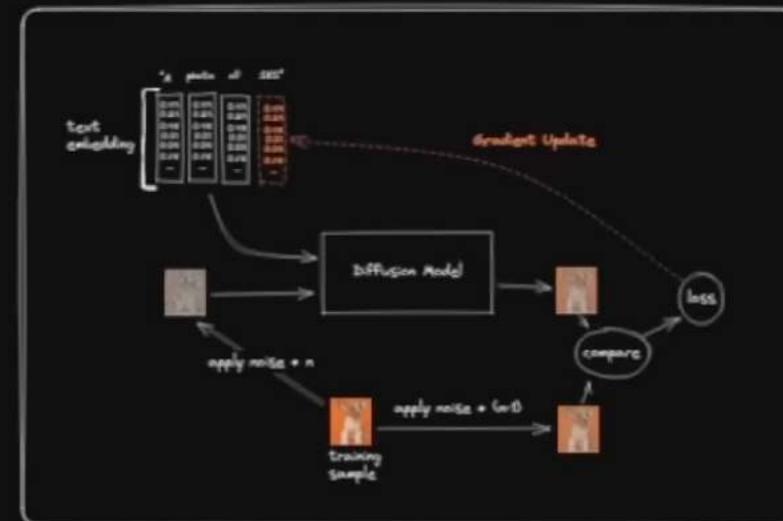
Dreambooth

+ probably the most effective
- storage inefficient (whole new model to deal with)



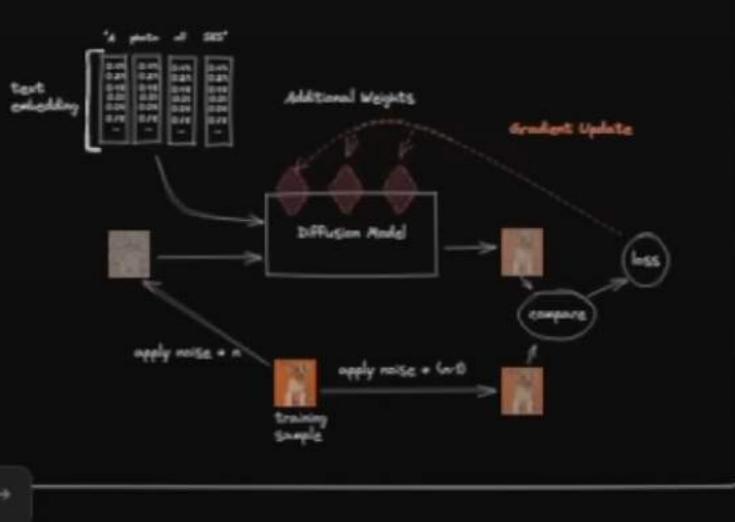
Textual Inversion

+ output is a tiny embedding

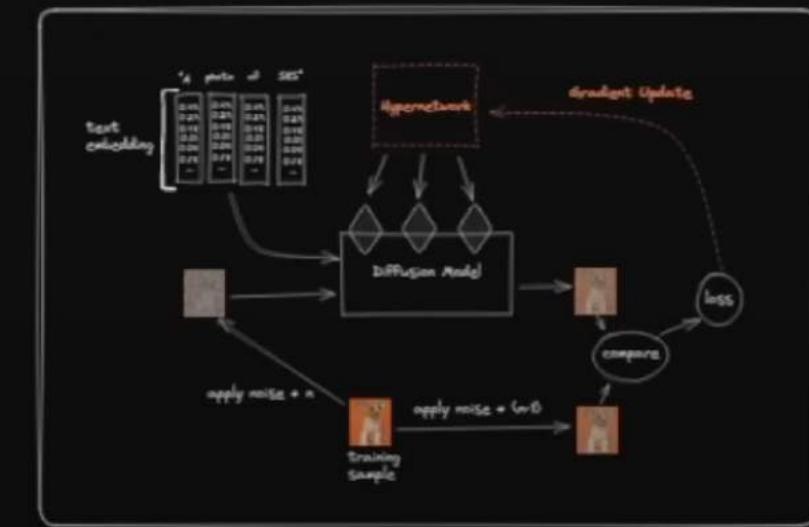


LoRA

+ quick to train

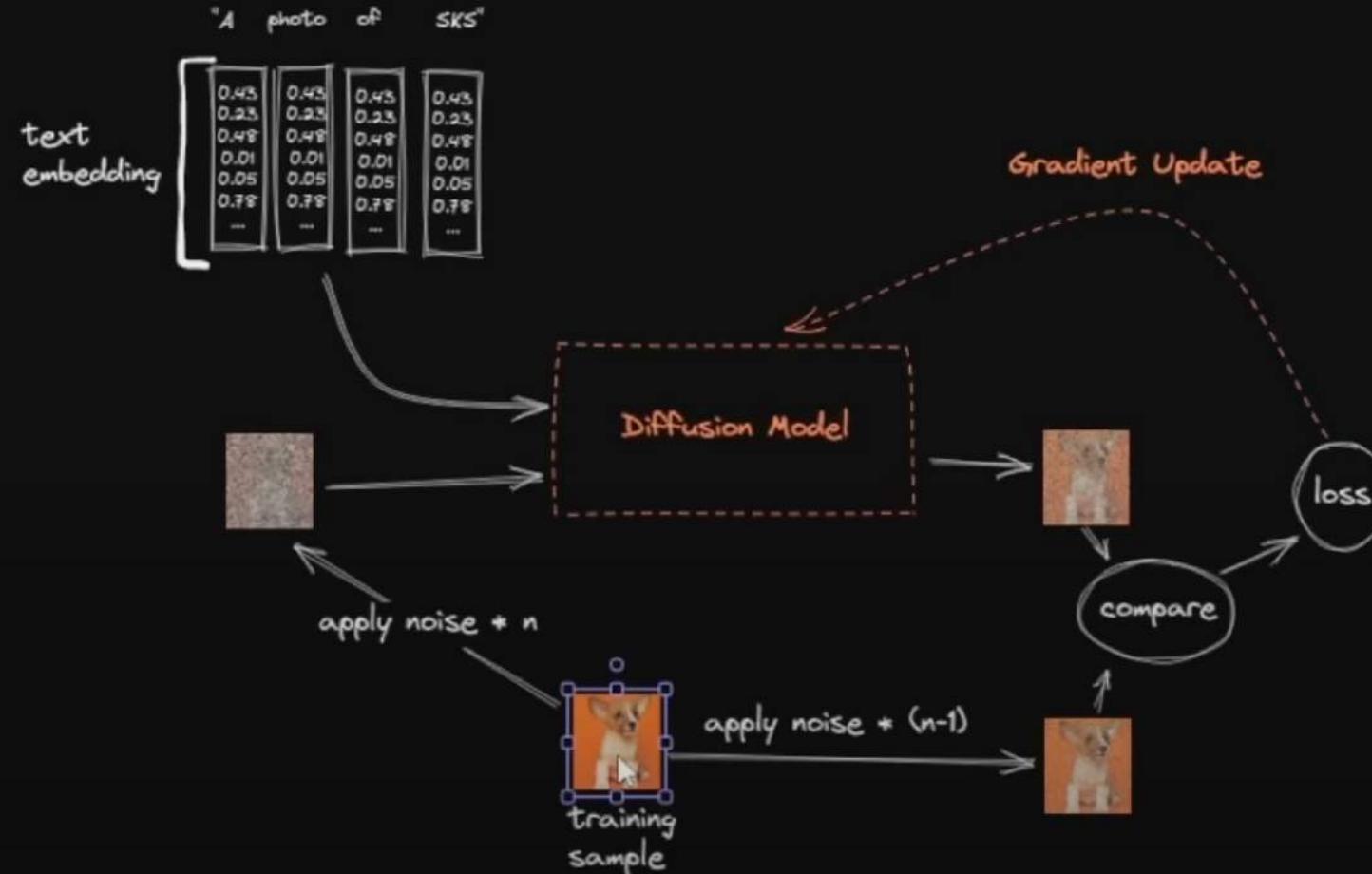


Hypernetworks



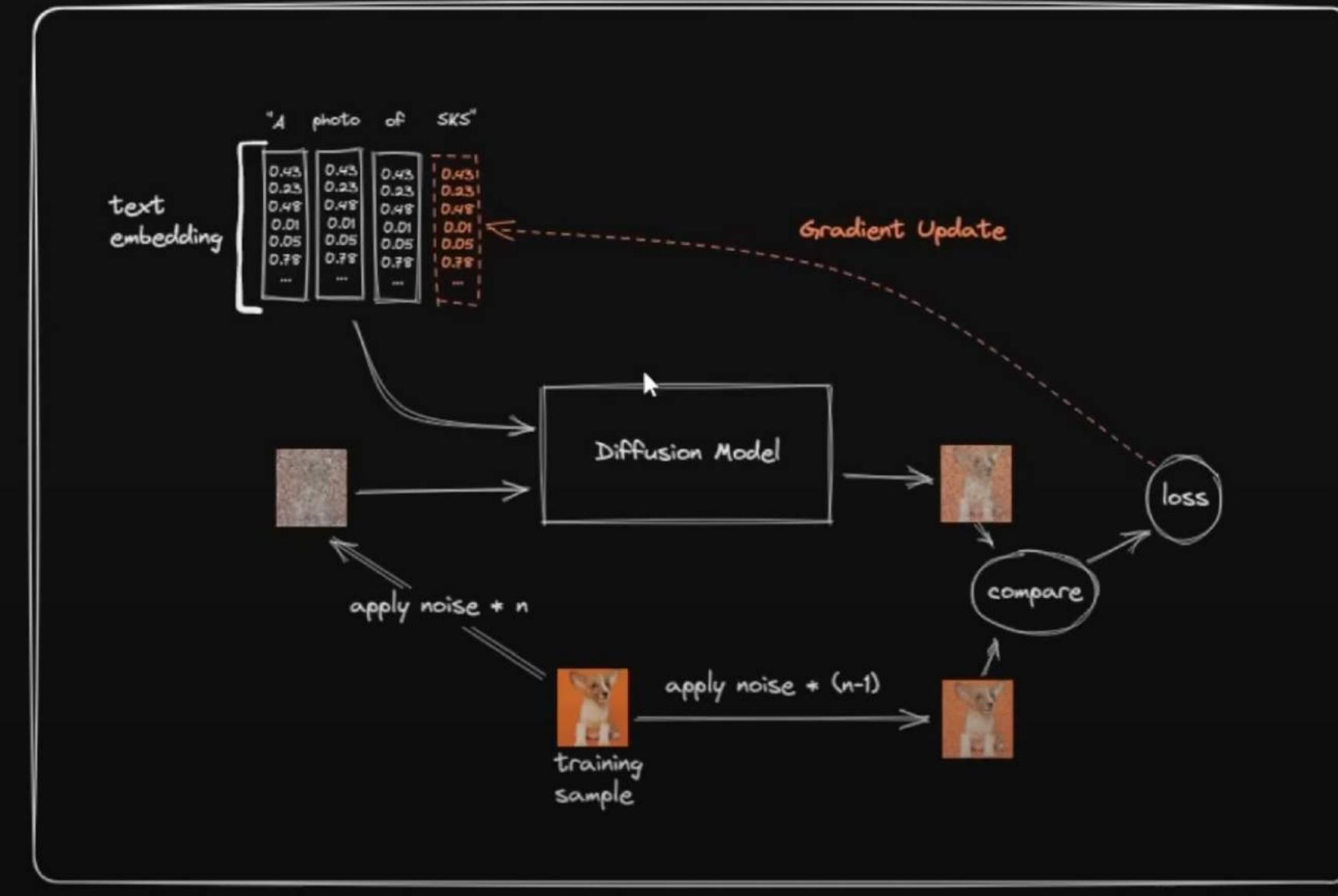
Dreambooth

- + probably the most effective
- storage inefficient (whole new model to deal with)



Textual Inversion

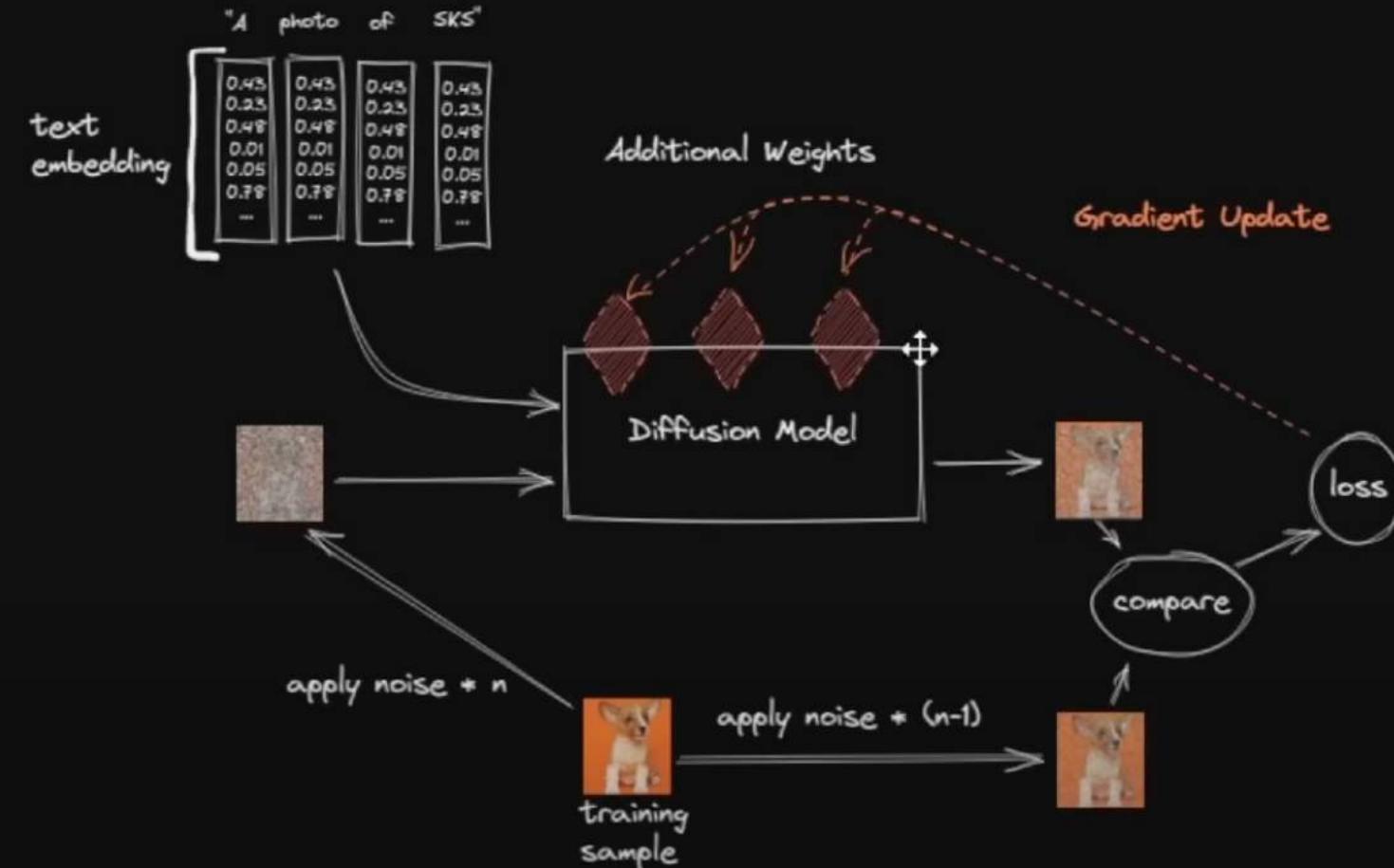
+ output is a tiny embedding



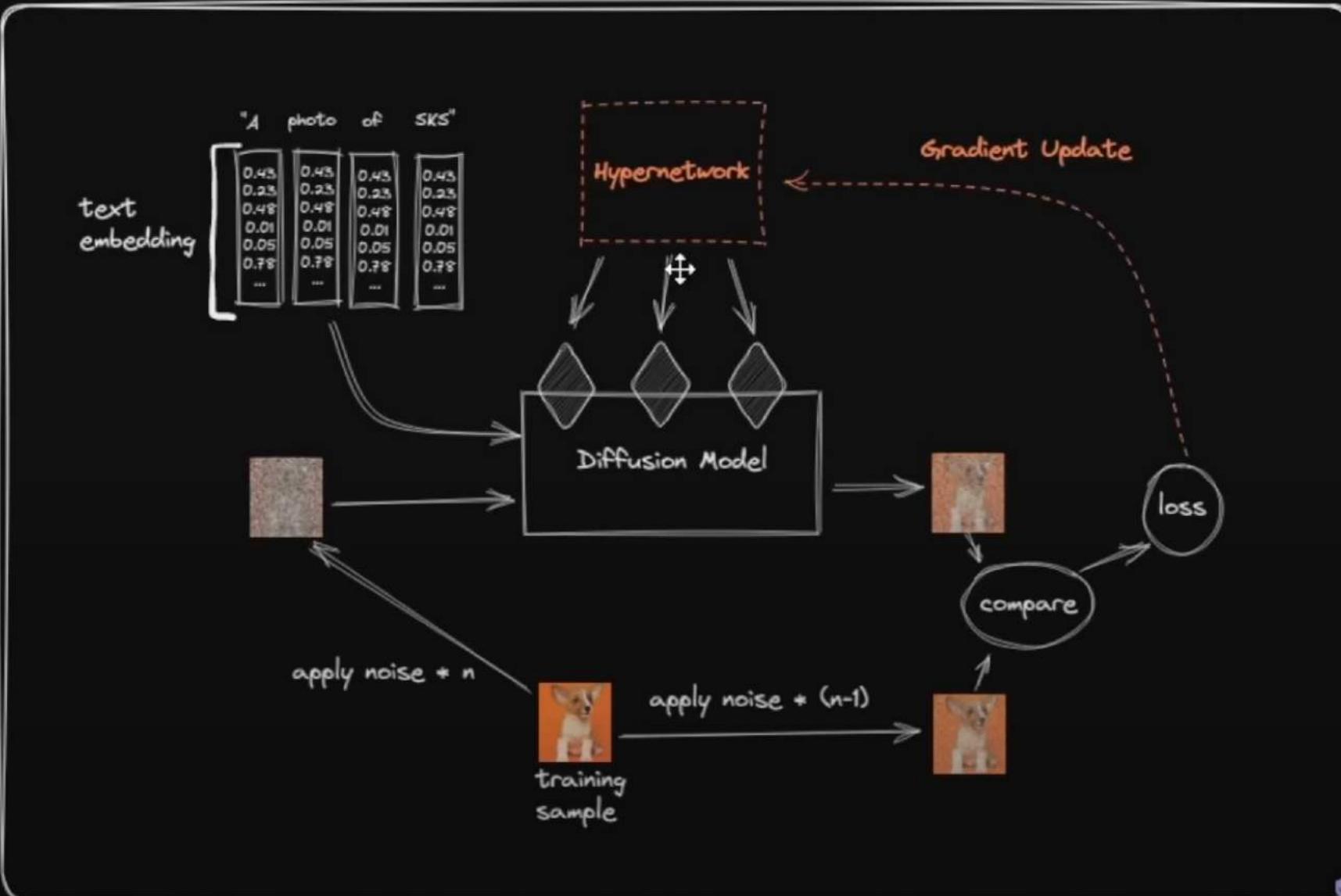
LoRA

To move canvas, hold mouse wheel or spacebar while dragging

+ quick to train



Hypernetworks



Fine-Tuning Stable Diffusion

- **CHECKPOINT (DREAMBOOTH)**
 - Best quality
 - Largest files
 - Cannot be combined with other models
- **TEXTUAL INVERSION (EMBEDDING)**
 - Flexibility (works with most models)
 - Better quality than LoRA, but more limited scope
 - Smallest size
- **LORA (LOW-RANK ADAPTATION)**
 - Flexibility (works with most models)
 - Faster to train than TI (and requires less VRAM)
 - Medium size

Prompt: RAW uhd closeup portrait photo of a (corgi) walking down a dark alleyway, nighttime city background, detailed (fur, textures!, hair!, shine, color!!, imperfections:1.1), highly detailed glossy eyes, (looking at the camera), specular lighting, dslr, ultra quality, sharp focus, tack sharp, dof, film grain, (centered), Fujifilm XT3, crystal clear, center of frame, corgi face, sharp focus, street lamp, neon lights, bokeh, (dimly lit), low key, at night, (night sky)



No offsetnoise LORA

<lora:epiNoiseoffset_v2:1>

↑
<lora:epiNoiseoffset_v2:2> ↑



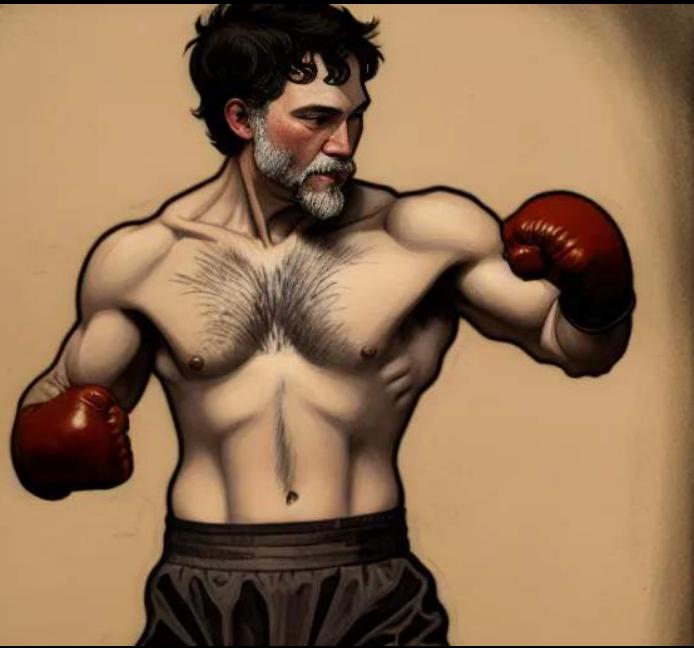




Training Your Own Model



TEXTUAL INVERSION



DREAMBOOTH





Tools

[Upload](#)[Gallery](#)

Hover & Click

Click an object one or more times.
Shift-click to remove regions.

[Add Mask](#)[Remove Area](#)[Reset](#)[Undo](#)[Redo](#)[Cut out object](#)



Tools

[Upload](#)[Gallery](#)

Hover & Click

Click an object one or more times.
Shift-click to remove regions.

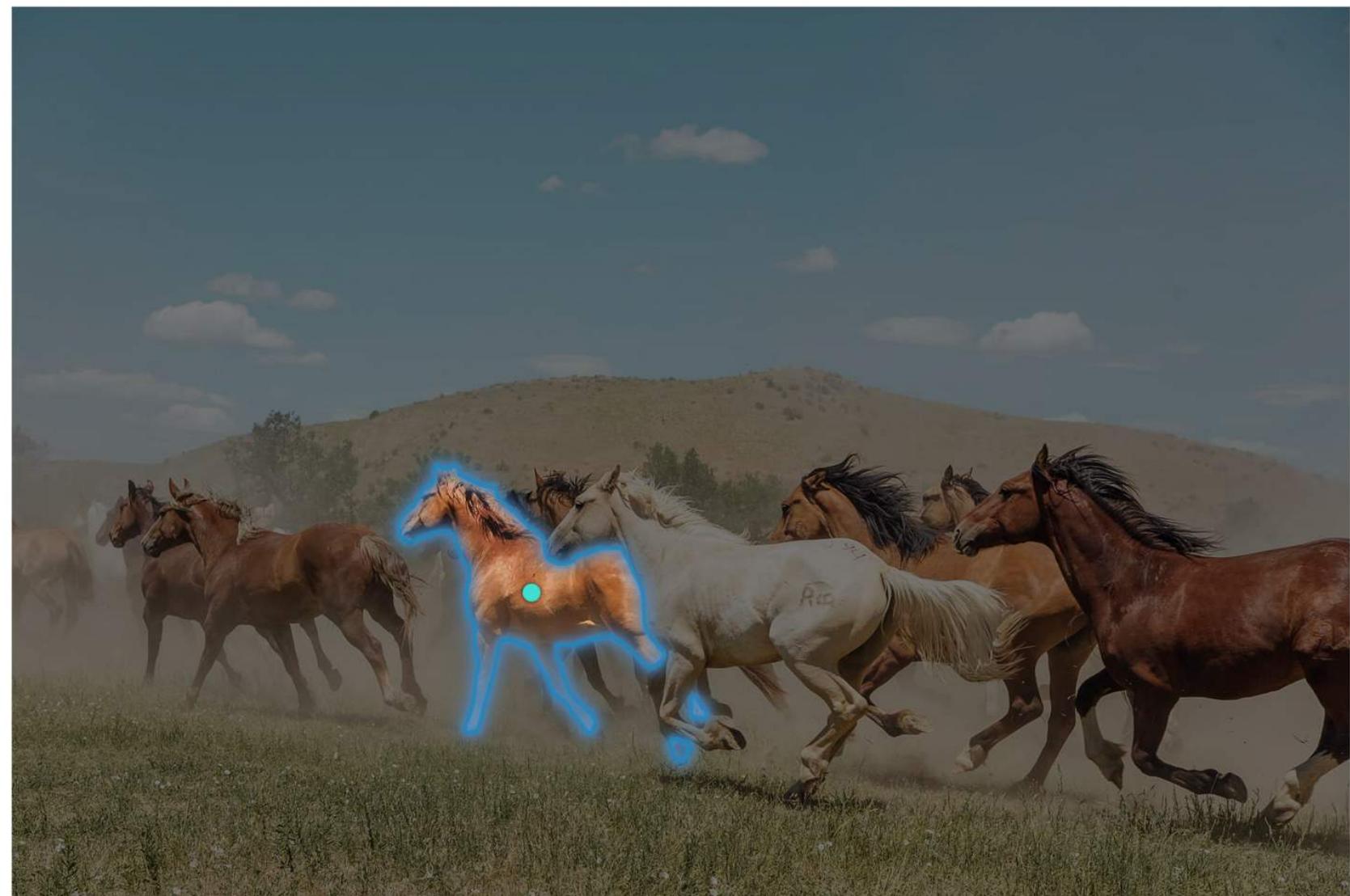
[Add Mask](#)[Remove Area](#)[Reset](#)[Undo](#)[Redo](#)[Multi-mask](#)[Cut out object](#)

Box

Everything

Cut-Outs

Cut out the selected object, or try multi-mask mode.





Interested in learning more? Check out the [Paper](#), [Blog Post](#), or [Code](#).

Tools

 [Upload](#) [Gallery](#) [Hover & Click](#) [Box](#) [Everything](#)

Find all the objects in the image automatically.

 [Cut out all objects](#) [Cut-Outs](#)

Output masks can be used as inputs to other AI systems.



QUESTIONS?

- "ART WASHES AWAY FROM THE SOUL THE DUST OF EVERYDAY LIFE."
- PABLO PICASSO
- "ART IS NOT A MIRROR HELD UP TO REALITY, BUT A HAMMER WITH WHICH TO SHAPE IT." - BERTOLT BRECHT
- "THE PURPOSE OF ART IS TO LAY BARE THE QUESTIONS THAT HAVE BEEN CONCEALED BY THE ANSWERS." - JAMES BALDWIN



NEXT LESSON

- AI ART - LESSON 5 - APRIL 27, 2023

GETTING FAMILIAR WITH GAN

- REFERENCES: [BMEADOWS.XYZ/INPEAK](https://bmeadows.xyz/inpeak)

Lesson 1 - An Introduction to AI Art

Summary - In this lesson, we will look at the history of AI art from the 1950s to present. We will discuss different genres and types of AI art. We will touch on famous art and artists, as well as discuss some of the controversies surrounding AI art today.

References

- History of AI Art
 - [Timeline of AI Art | AIArtists.org](#)
 - [How Did A.I. Art Evolve? | Artnet](#)
 - [The Past, Present, and Future of AI Art | The Gradient](#)
 - [Where the AI Art Boom Came From | Wired](#)
- Twitter Posts
 - [Creation Process | @TheBenMeadows](#)
 - [AI Art Tutorials | @ClaireSilver12](#)
 - [Historic AI Art | @ClownVamp](#)
 - [Second Wave AI Art | @ClownVamp](#)
 - [The AI Artists List | @tender_art](#)
 - [Notable AI Artists | @0xWatkins](#)
 - [AI Behind The Scenes | @ClownVamp](#)
- Controversy
 - [AI Art Panic | Opinionated Guides](#)
 - [The AI Art At Christie's Is Not What You Think | Artnome](#)
 - [AI Is Blurring the Definition of Artist | American Scientist](#)
 - [AI won't make artists redundant – thanks to information theory](#)
 - [Is A.I. Art Stealing from Artists? | The New Yorker](#)
 - [AI or No, It's Always Too Soon to Sound the Death Knell of Art | Wired](#)
 - [AI-art isn't art | The Intrinsic Perspective](#)
 - [Have AI image generators assimilated your art? | Ars Technica](#)
 - [The scary truth about AI copyright is nobody knows what will happen next | The Verge](#)