Stable Diffusion

How Community Contributions Shape the Future of Generative AI

Generative AI

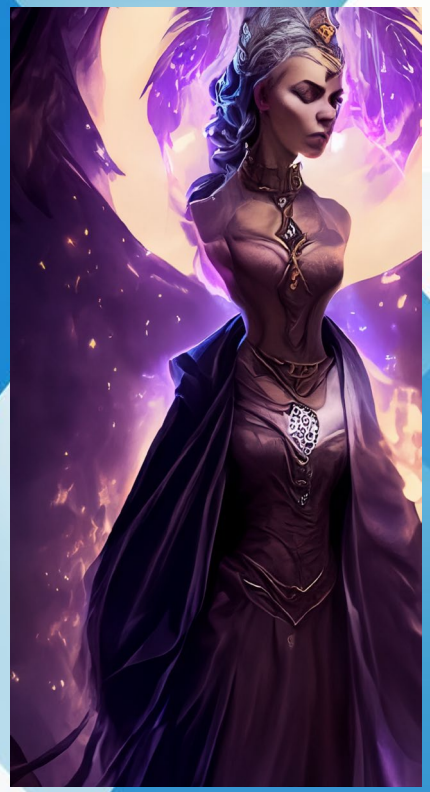
- A Neural Network that creates an output based on learned connections
- Associates shown images with given tags
- Applies concepts learned from one set of images to others

Comparison Prompt: “Fantasy Priestess”

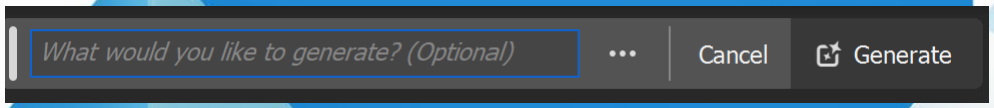
Dall-E 3

Stable Diffusion 1.5

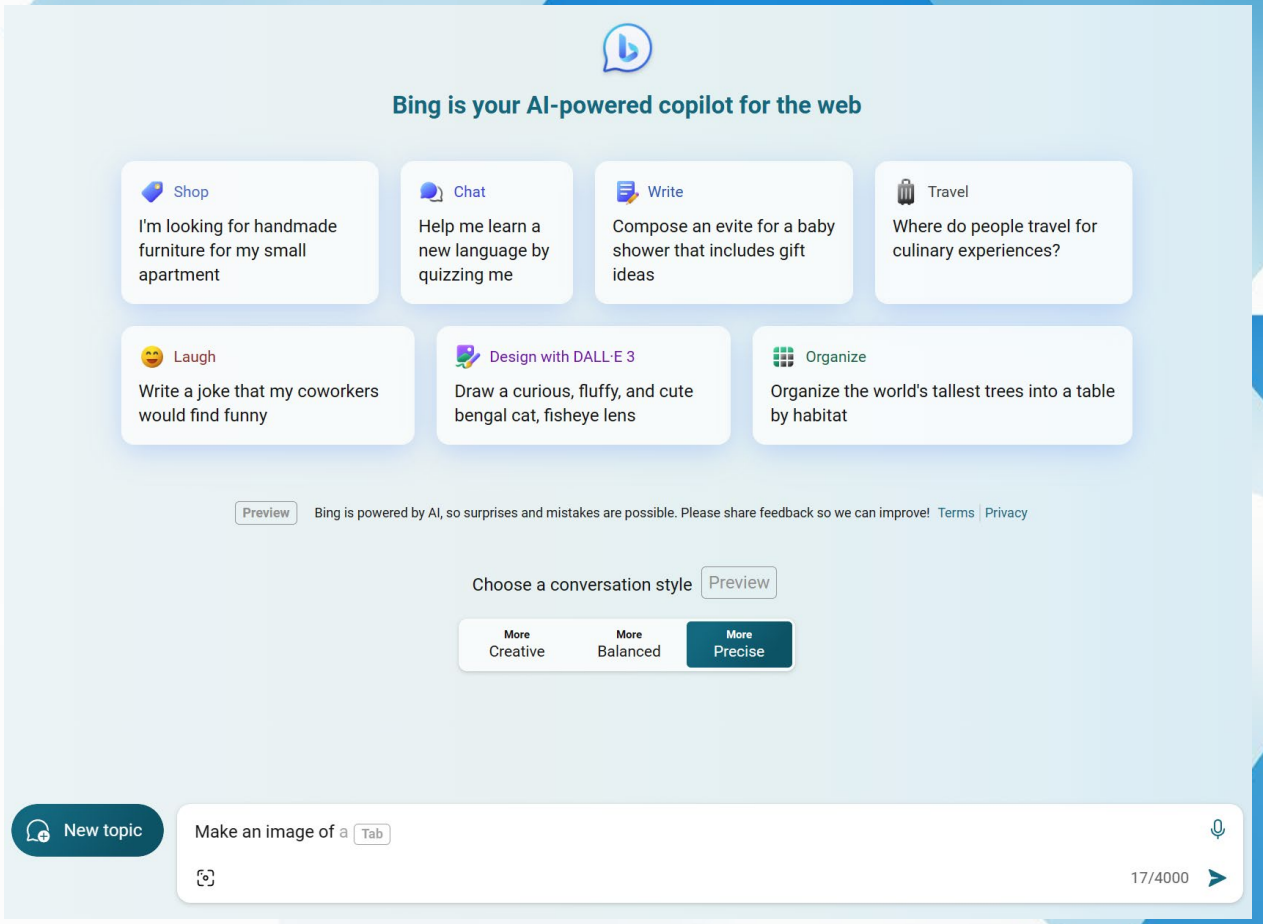
Adobe Firefly



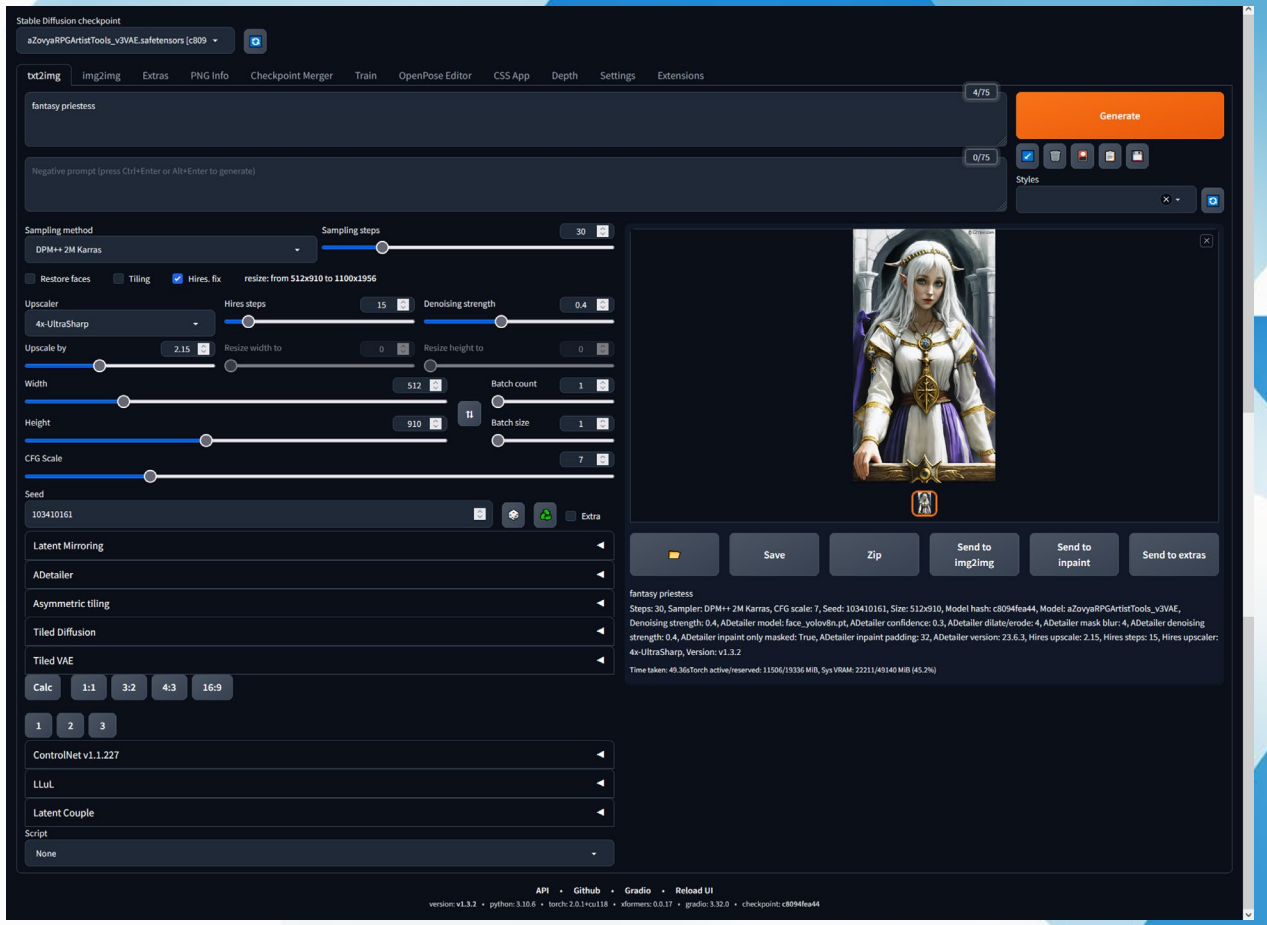
Adobe Firefly Image Creation UI



Dall-E 3 UI


Bing is your AI-powered copilot for the web
Shop
I'm looking for handmade furniture for my small apartment
Chat
Help me learn a new language by quizzing me
Write
Compose an evite for a baby shower that includes gift ideas
Travel
Where do people travel for culinary experiences?
Laugh
Write a joke that my coworkers would find funny
Design with DALL·E 3
Draw a curious, fluffy, and cute bengal cat, fisheye lens
Organize
Organize the world's tallest trees into a table by habitat
Preview
Bing is powered by AI, so surprises and mistakes are possible. Please share feedback so we can improve! Terms | Privacy
Choose a conversation style
Preview
More Creative
More Balanced
More Precise
New topic
Make an image of a
Tab
17/4000

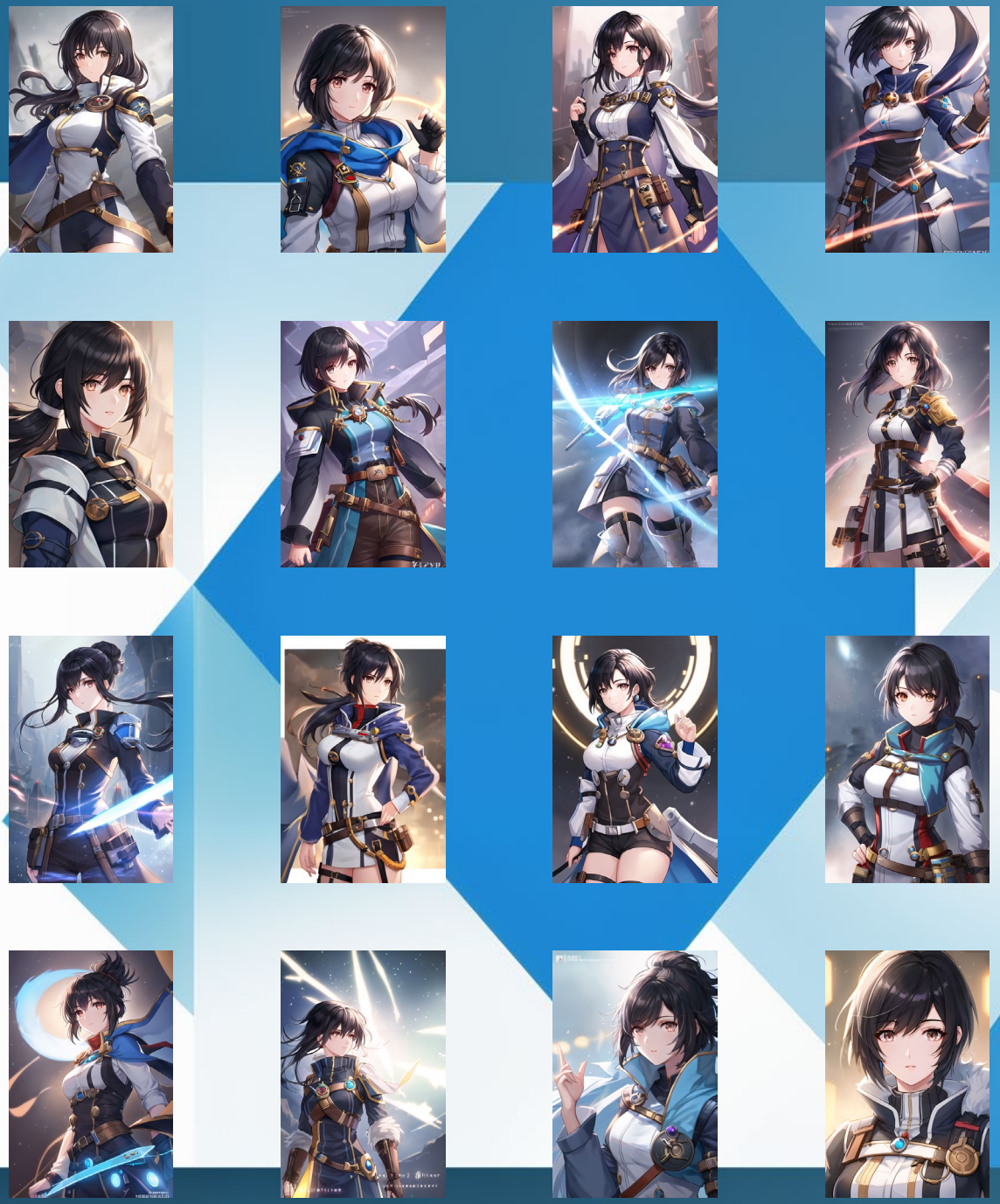
Stable Diffusion UI



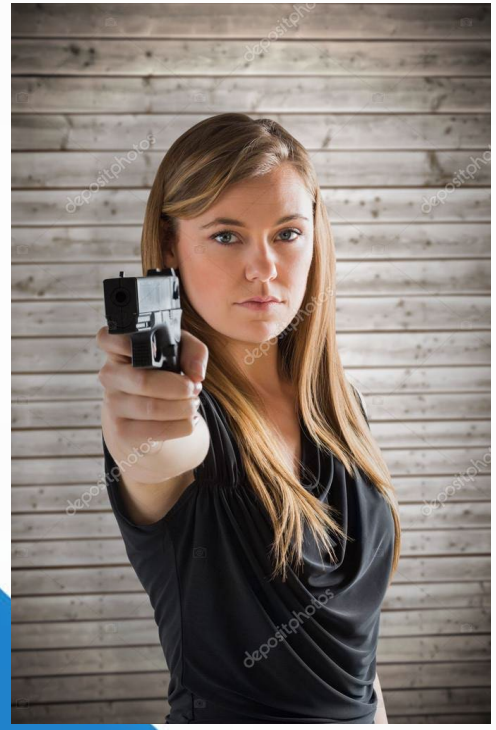
Making an Image

In Stable Diffusion

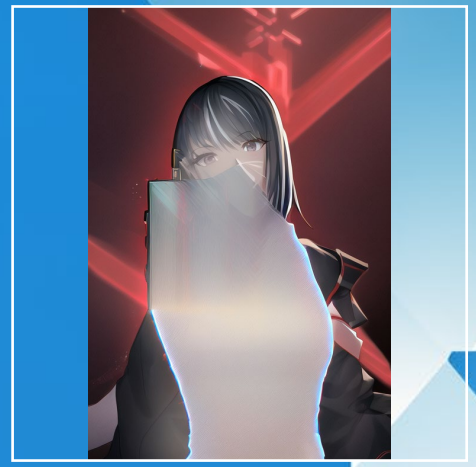
Prompt Creation



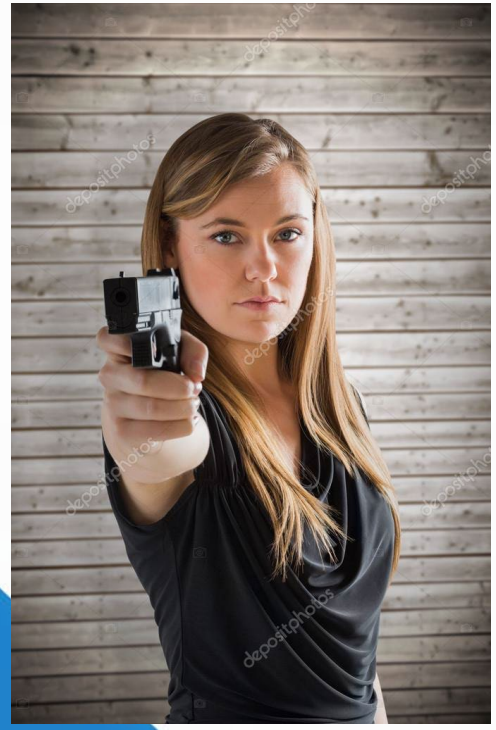
Pose with ControlNet



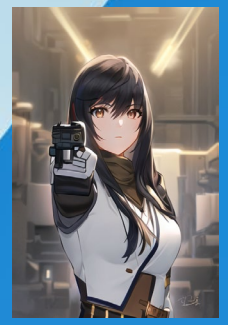
Wrong Setting

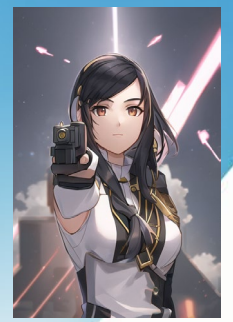
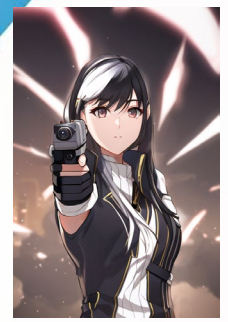
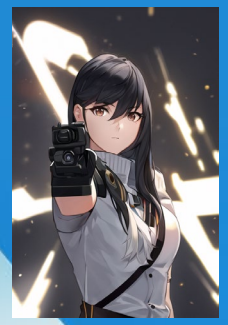
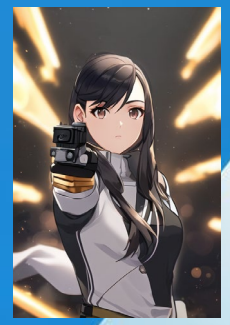


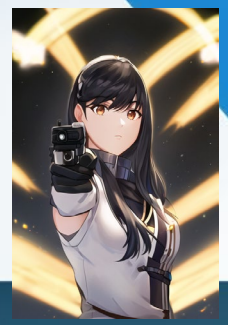
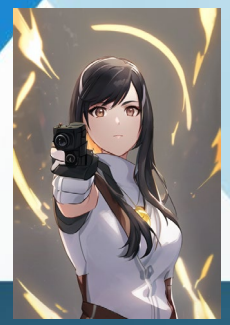
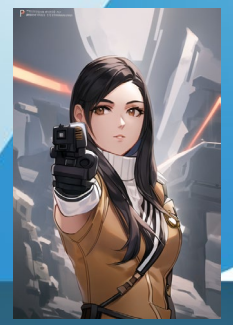
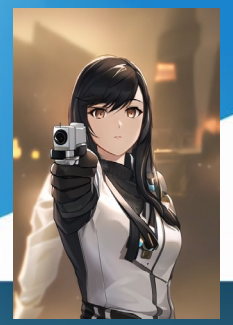
Pose with ControlNet



Results (24 generations)

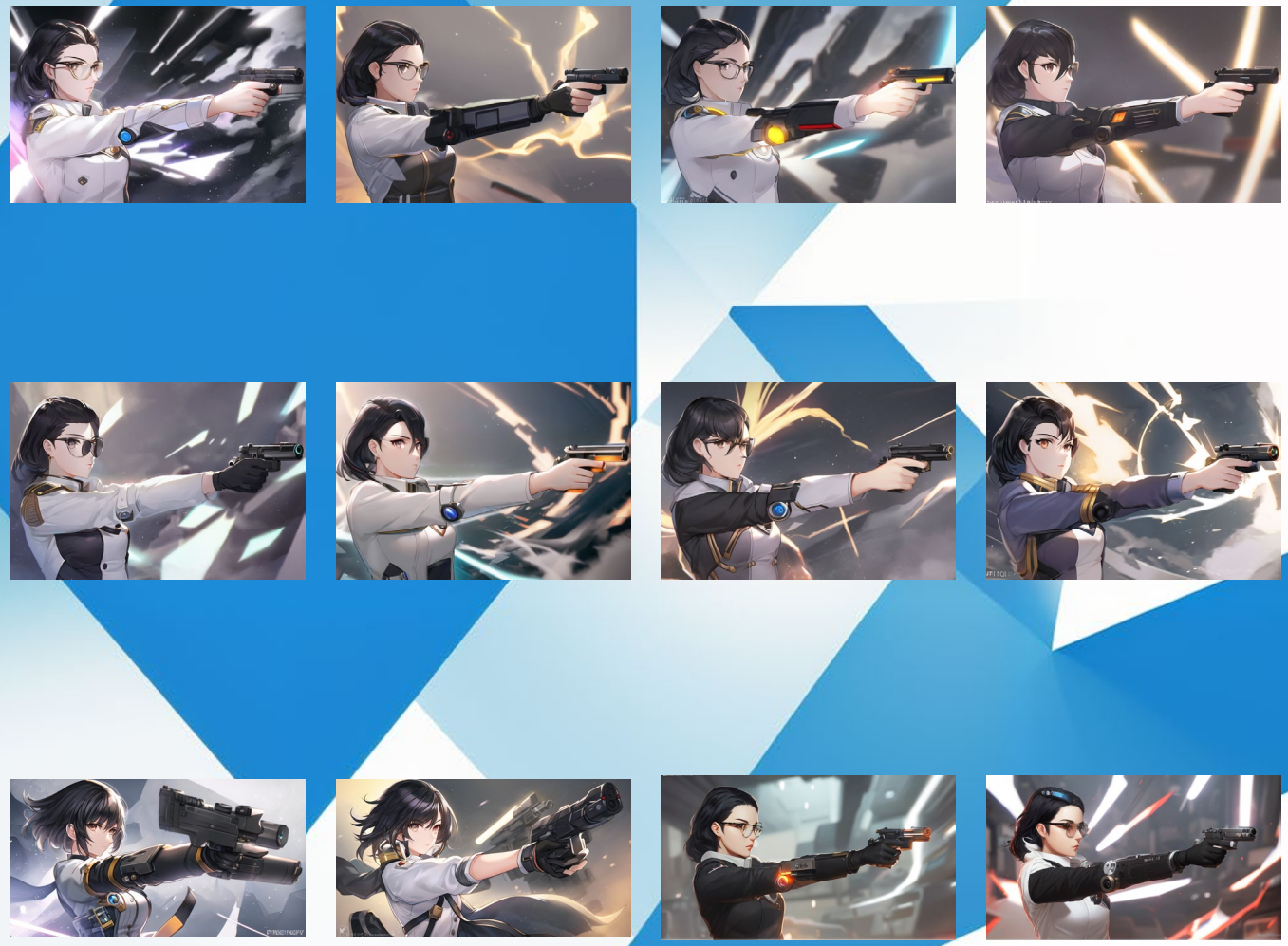


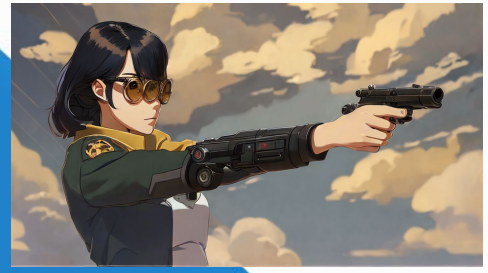
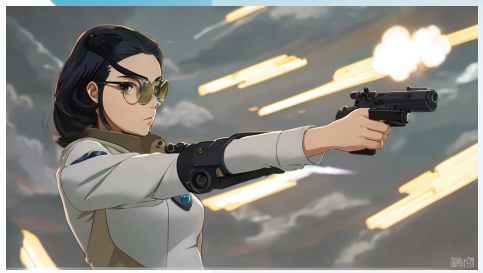





Pose with ControlNet

Results (72 generations)



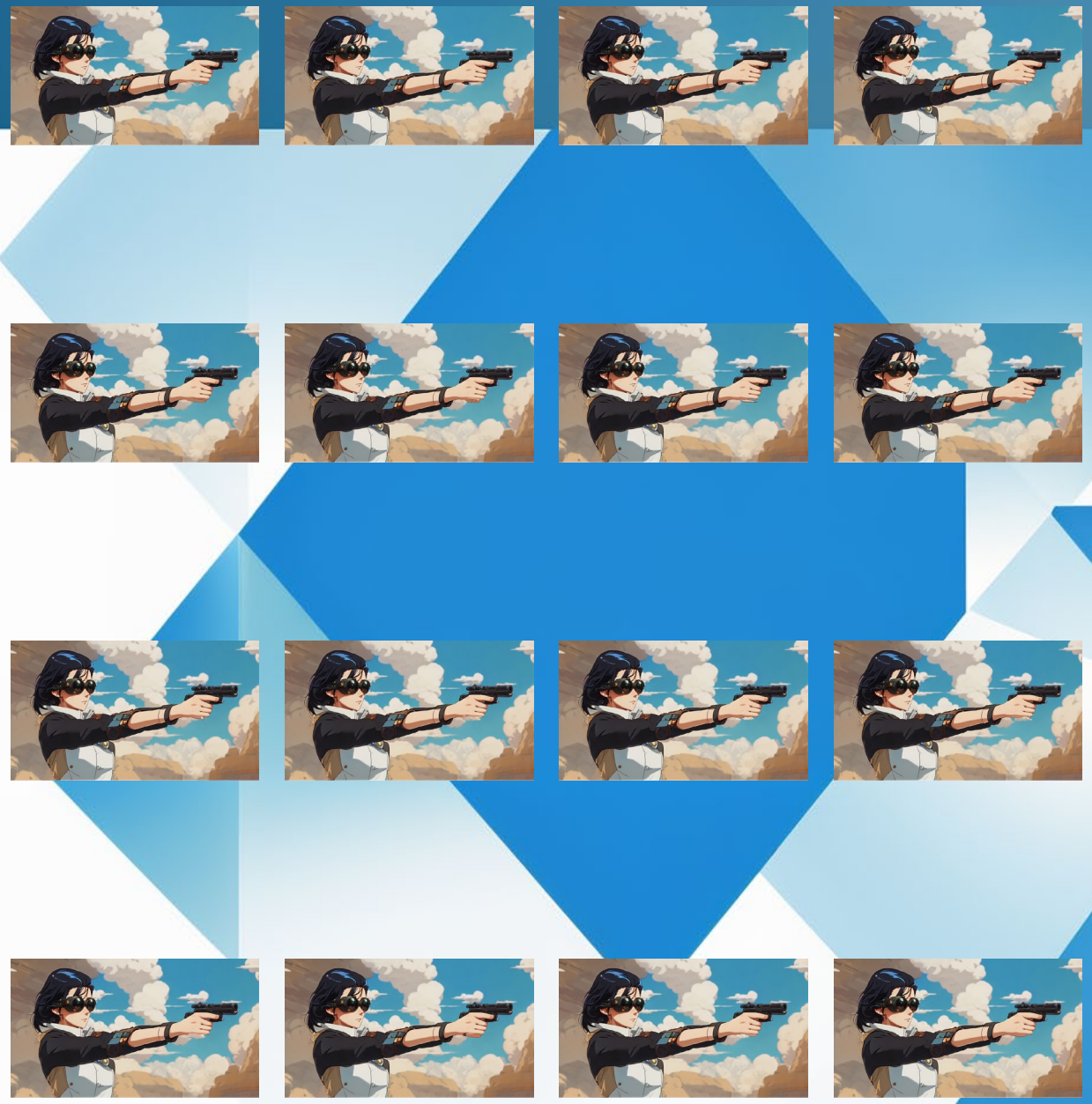
Prompt Refinement

Face Replacement (40 generations)

Inpainting
Extra Finger

Inpainting with new prompt (80 generations)



Manually Paint Out the Finger

Before

After

Image 2 Image Blend

Stable Diffusion Upscaling

R-ESRGAN 4x+ Anime6B

R-ESRGAN 4x+ Anime6B

SwinIR_4x

Error Correction

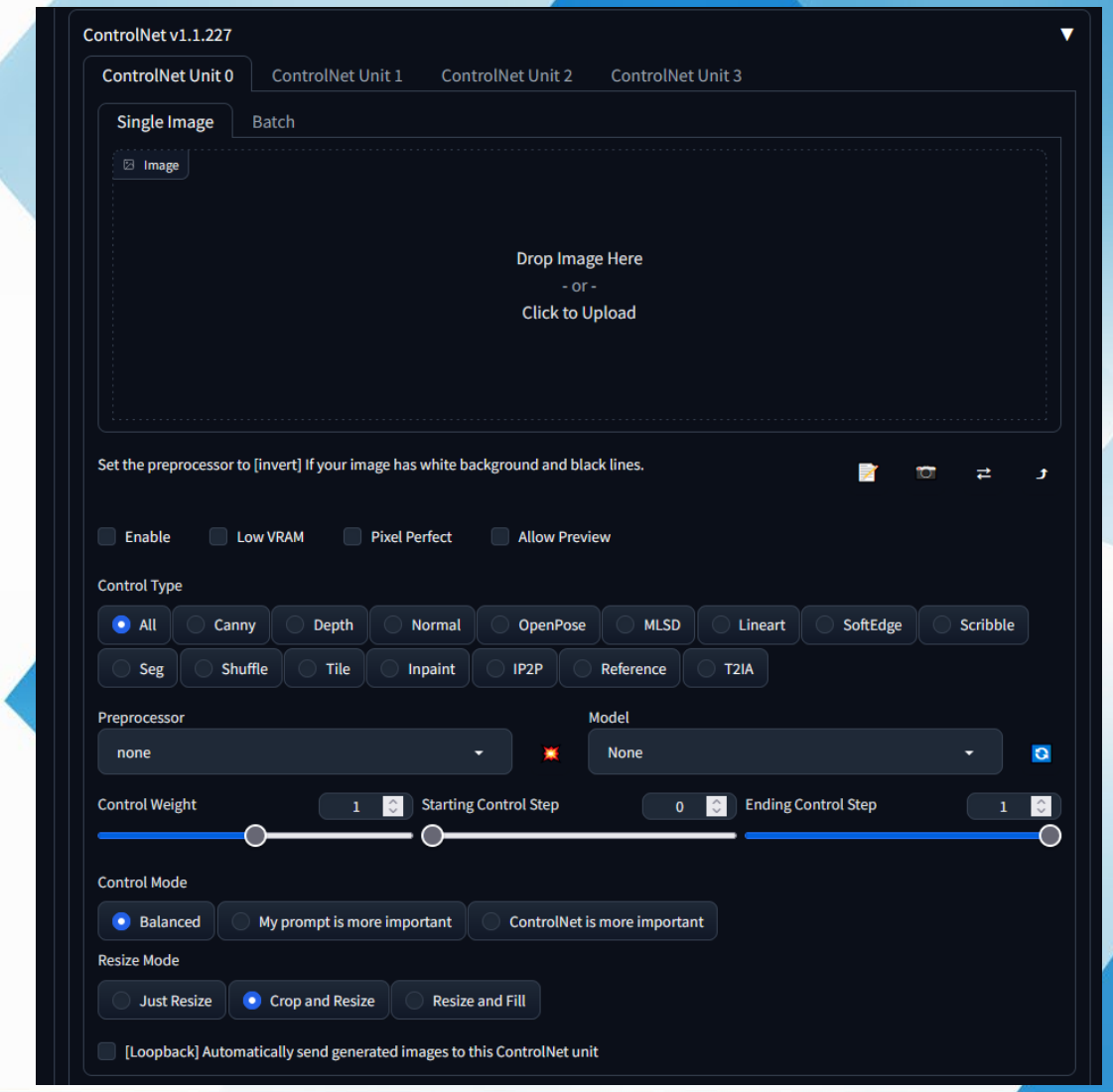
Add Noise

Curves Adjustment

Hue and Saturation Change

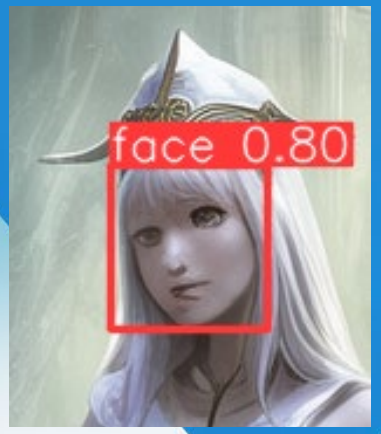
Final Image

ControlNet


ControlNet v1.1.227
ControlNet Unit 0
ControlNet Unit 1
ControlNet Unit 2
ControlNet Unit 3
Single Image
Batch
Image
Drop Image Here
- or -
Click to Upload
Set the preprocessor to [invert] If your image has white background and black lines.
Enable
Low VRAM
Pixel Perfect
Allow Preview
Control Type
All
Canny
Depth
Normal
OpenPose
MLSD
Lineart
SoftEdge
Scribble
Seg
Shuffle
Tile
Inpaint
IP2P
Reference
T2IA
Preprocessor
none
Model
None
Control Weight
1
Starting Control Step
0
Ending Control Step
1
Control Mode
Balanced
My prompt is more important
ControlNet is more important
Resize Mode
Just Resize
Crop and Resize
Resize and Fill
[Loopback] Automatically send generated images to this ControlNet unit

ADetailer

Before

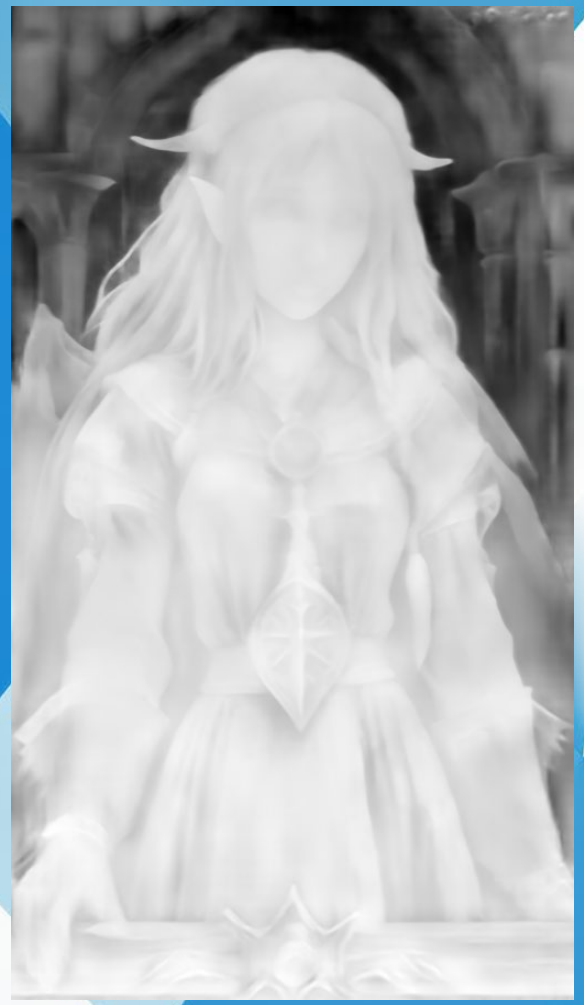


After

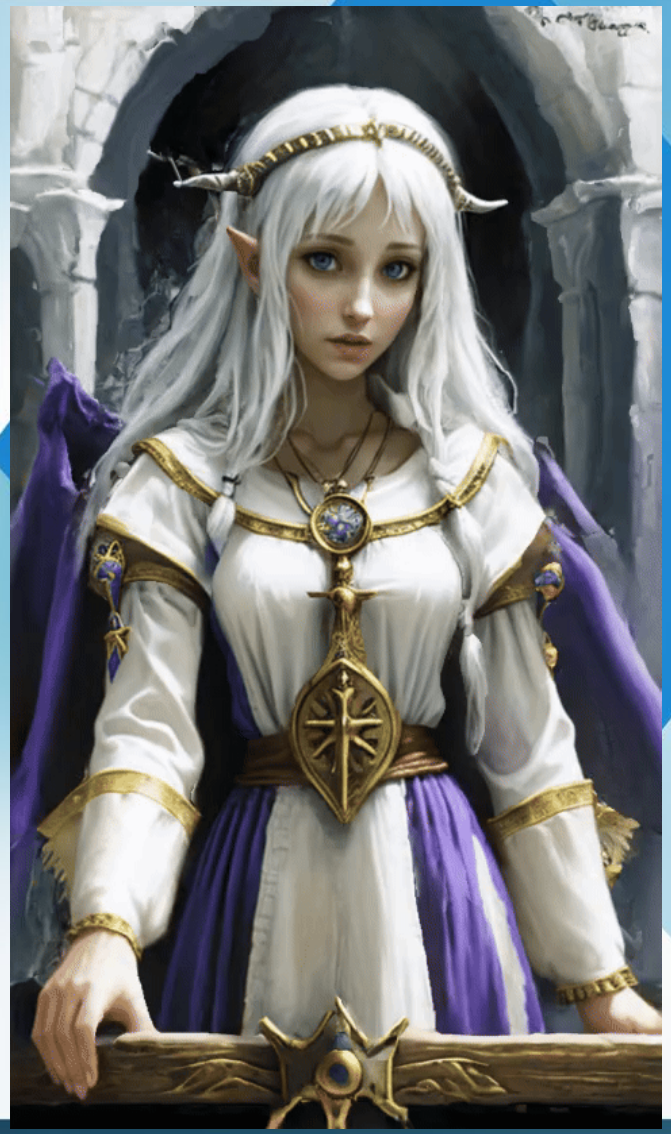
Depth

Input

Output



Depth Video



Well over 100 Community made Extensions

Community Models

LoRAs (Low-Rank Adaptation): Add Detail

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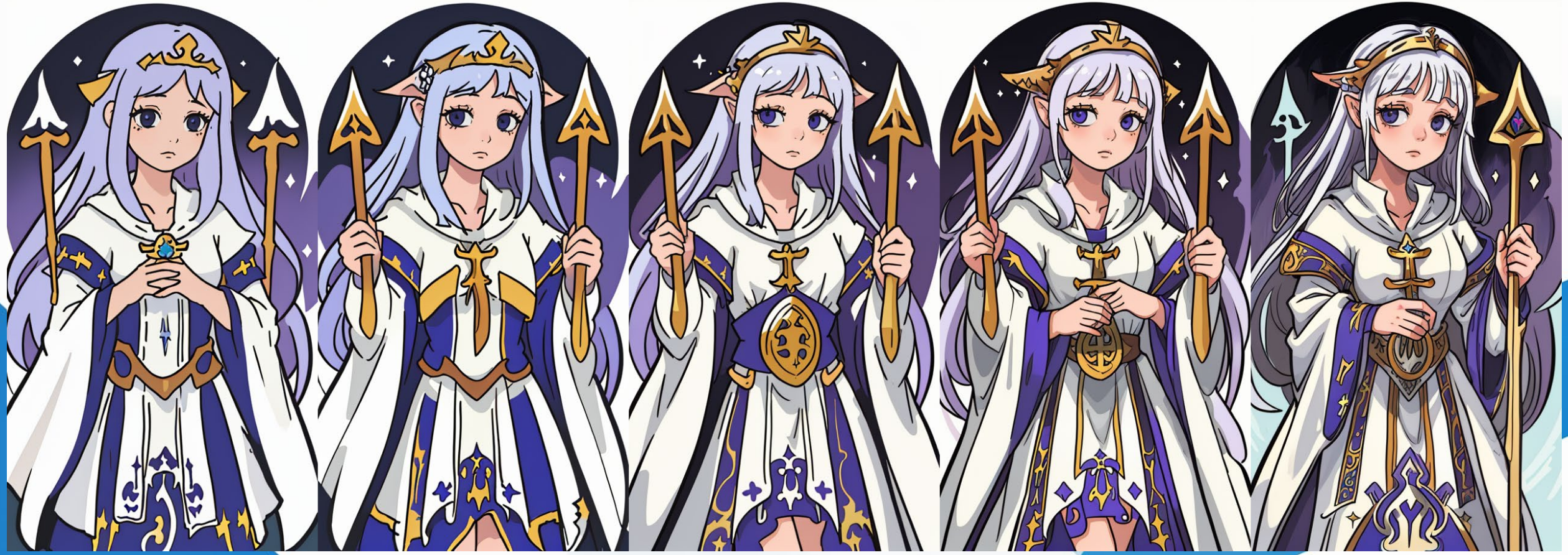
<lora:add_detail:0> <lora:add_detail:0.5> <lora:add_detail:1>

LoRAs: Add Detail

<lora:add_detail:-1> <lora:add_detail:-0.5> <lora:add_detail:0> <lora:add_detail:0.5> <lora:add_detail:1>



LoRAs: Line Width

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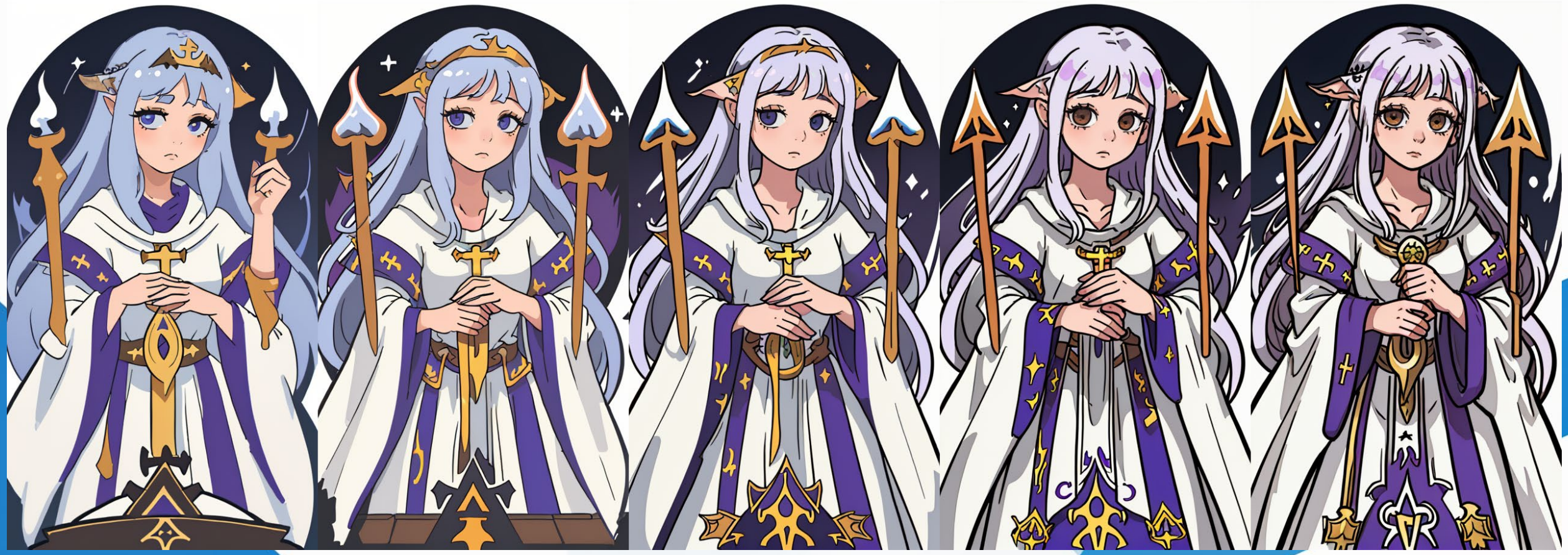
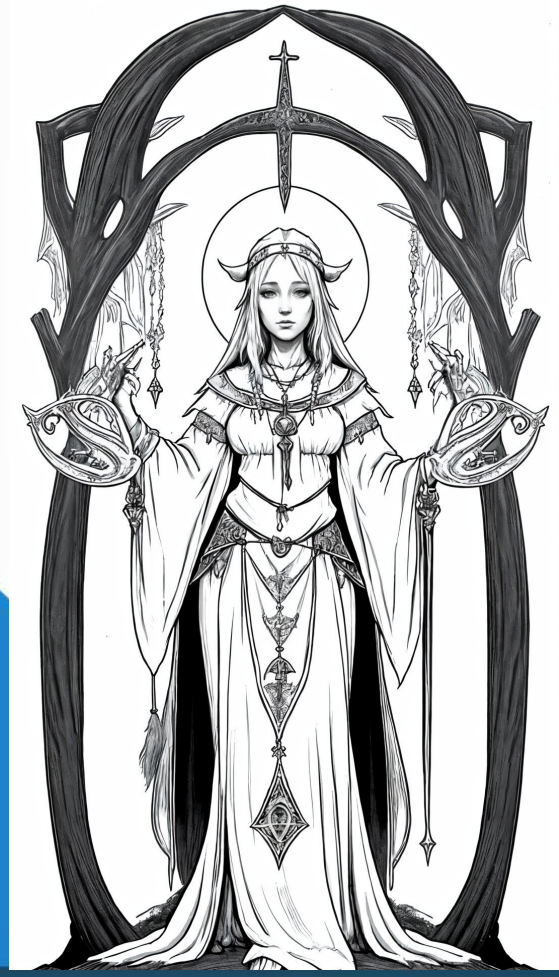
LoRAs: Line Width

<lora:tangbohu-line_1.0:-1> <lora:tangbohu-line_1.0:-0.5> <lora:tangbohu-line_1.0:0> <lora:tangbohu-line_1.0:0.5> <lora:tangbohu-line_1.0:1>

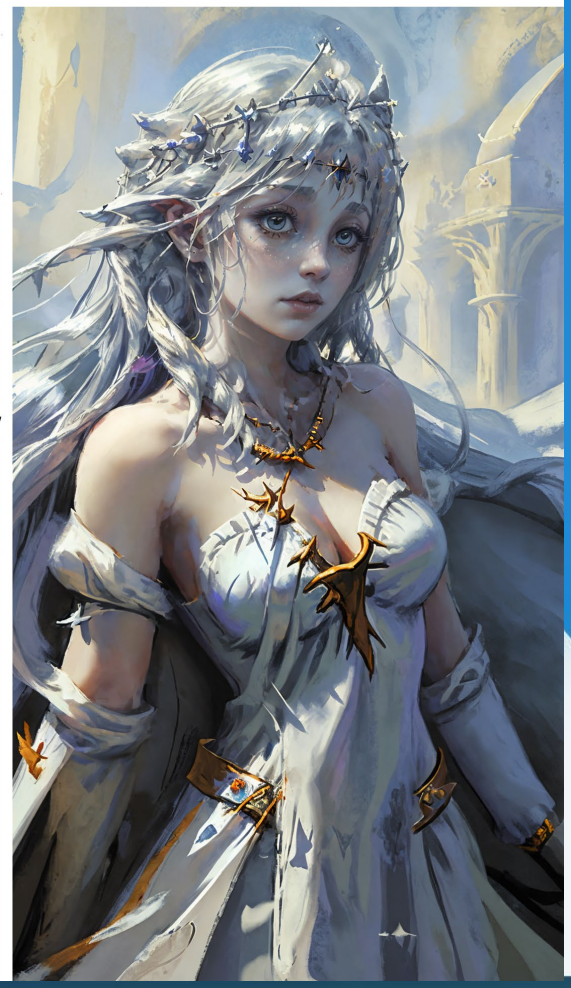


LoRAs: Style

<lora:animeoutlineV4_16:1>



Oil Paint Style
<lora:last:1>



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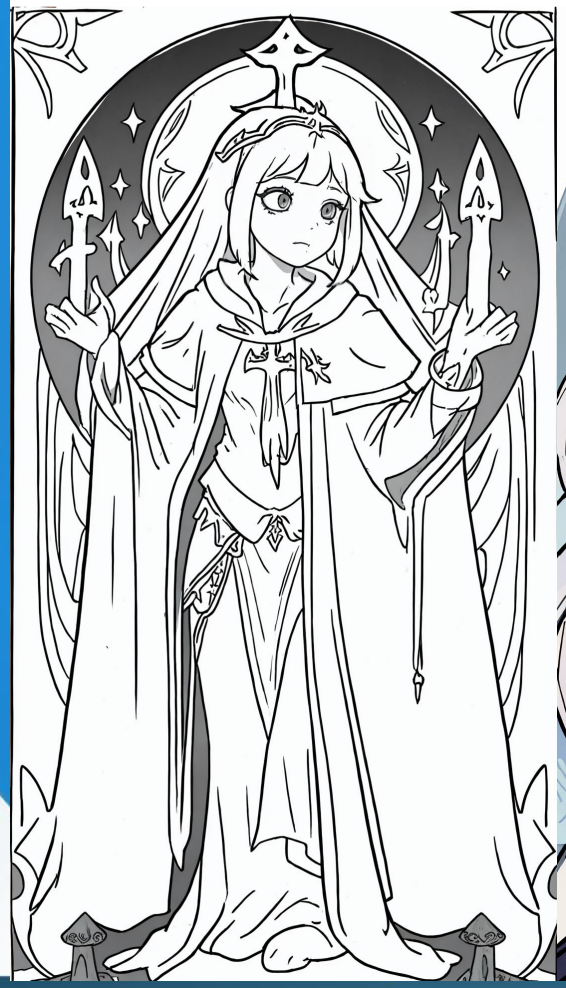

Oil Paint Style
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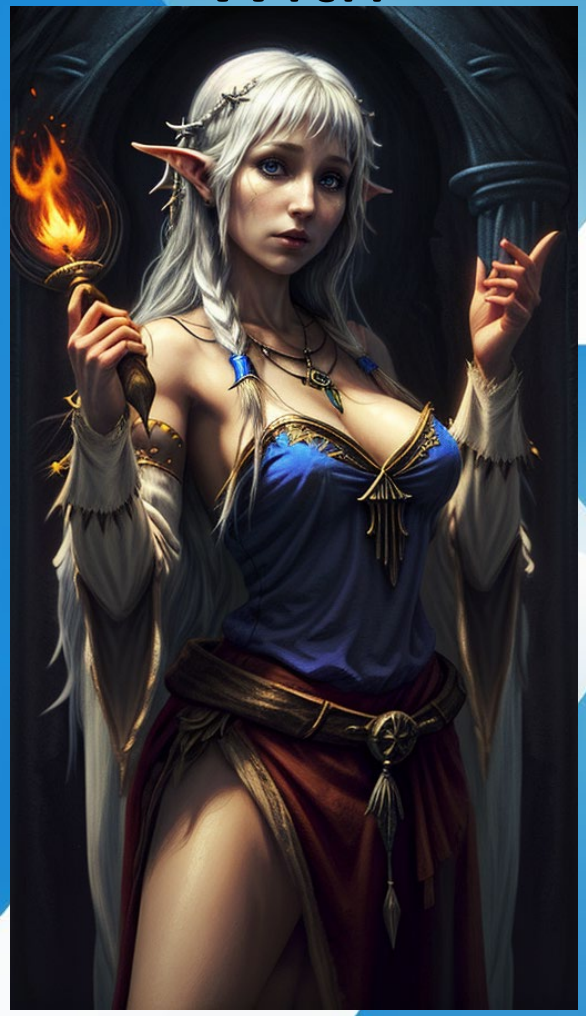
LoRA: Contrast Fix

Without

With



Questions?