



# 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”

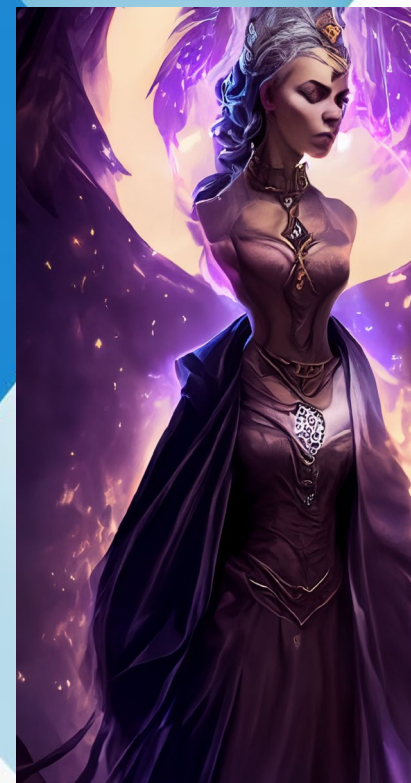
**Dall-E 3**




**Stable Diffusion 1.5**



**Adobe Firefly**



# Adobe Firefly Image Creation UI

... Cancel  Generate



# 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  

 17/4000 

# Stable Diffusion UI

The screenshot displays the Stable Diffusion web interface. At the top, the prompt "fantasy priestess" is entered in the main text box, with a "Generate" button to its right. Below the prompt, there are various settings and controls:

- Sampling method:** DPM++ 2M Karras
- Sampling steps:** 30
- Upscaler:** 4x-UltraSharp
- CFG Scale:** 7
- Seed:** 103410161
- Width:** 512
- Height:** 910
- Batch count:** 1
- Batch size:** 1

The generated image shows a detailed fantasy priestess character with long white hair, wearing a white and purple robe with gold accents. Below the image are buttons for "Save", "Zip", "Send to img2img", "Send to inpaint", and "Send to extras".

At the bottom of the interface, there is a footer with the following text:

API • Github • Gradio • Reload UI  
version: v1.3.2 • python: 3.10.6 • torch: 2.0.1rcu118 • xformers: 0.0.17 • gradio: 3.32.0 • checkpoint: c8094fe44

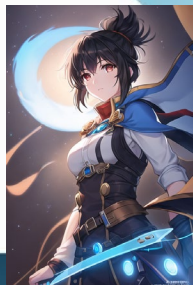
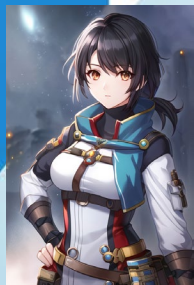
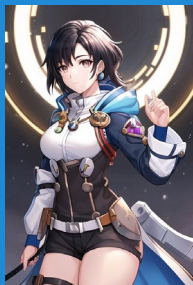
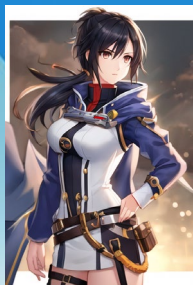
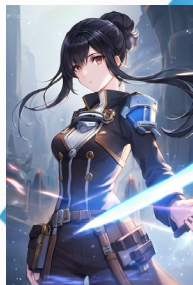
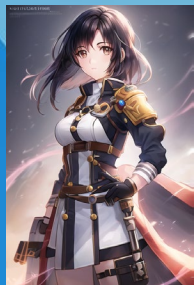
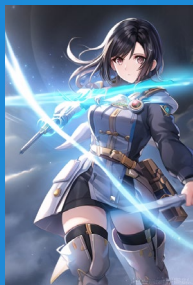
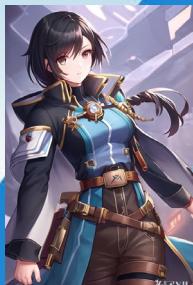
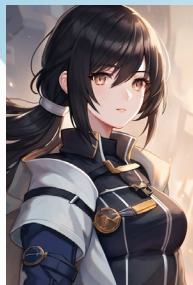
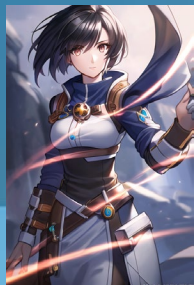
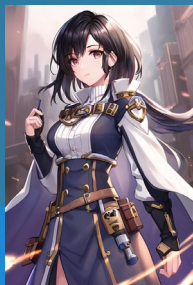
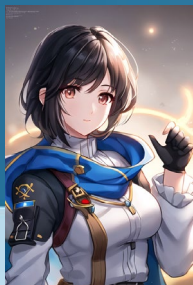
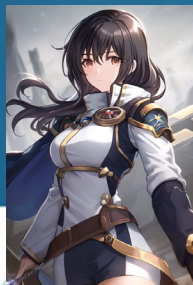
# Making an Image

In Stable Diffusion





# Prompt Creation

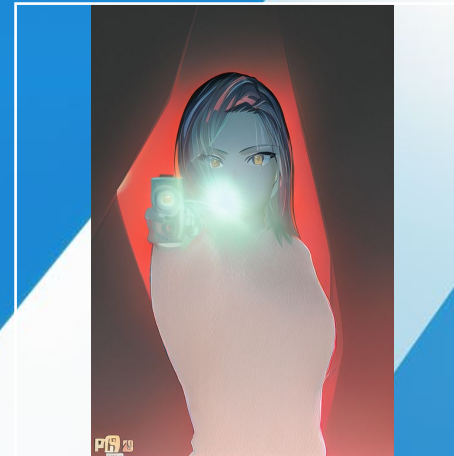
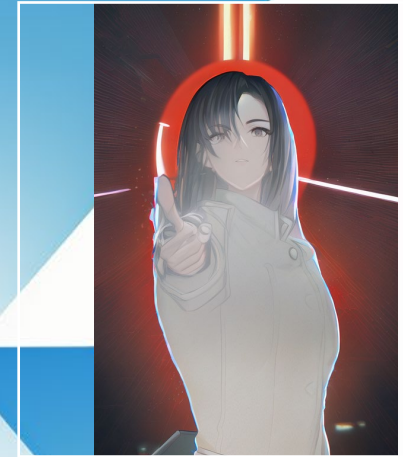
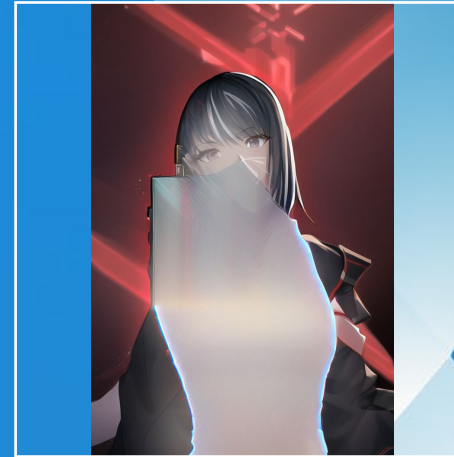




# Pose with ControlNet

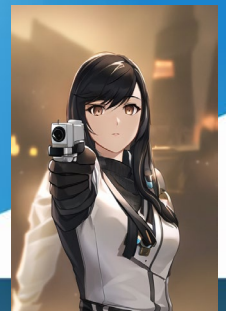
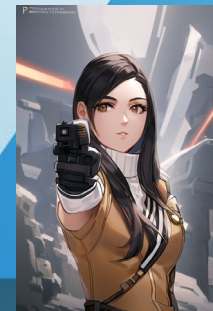
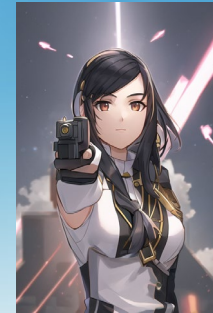


# Wrong Setting



# Pose with ControlNet

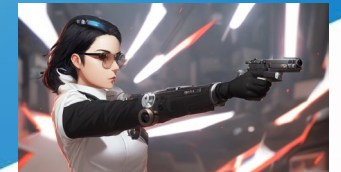
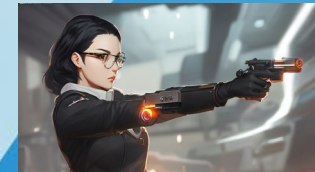
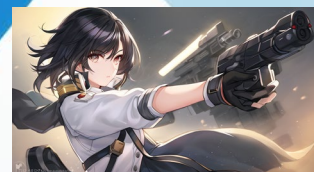
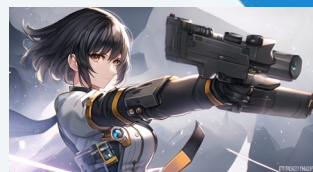
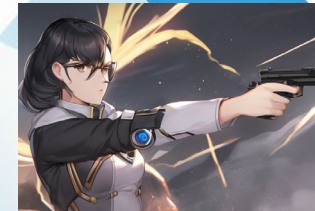
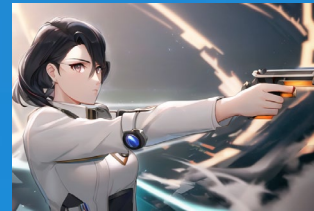
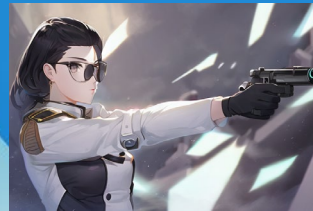
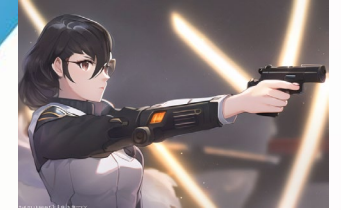
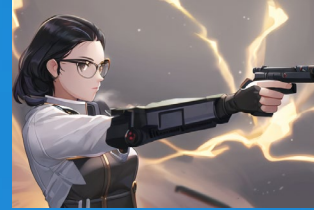
## Results (24 generations)



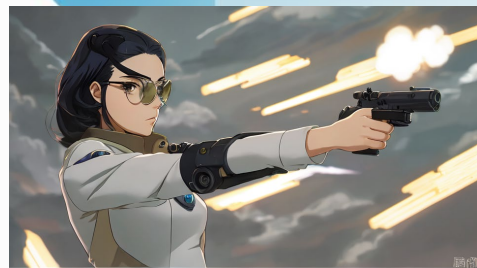
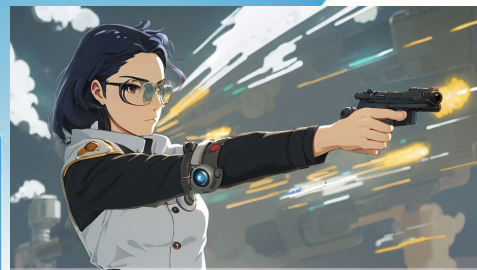


# Pose with ControlNet

## Results (72 generations)

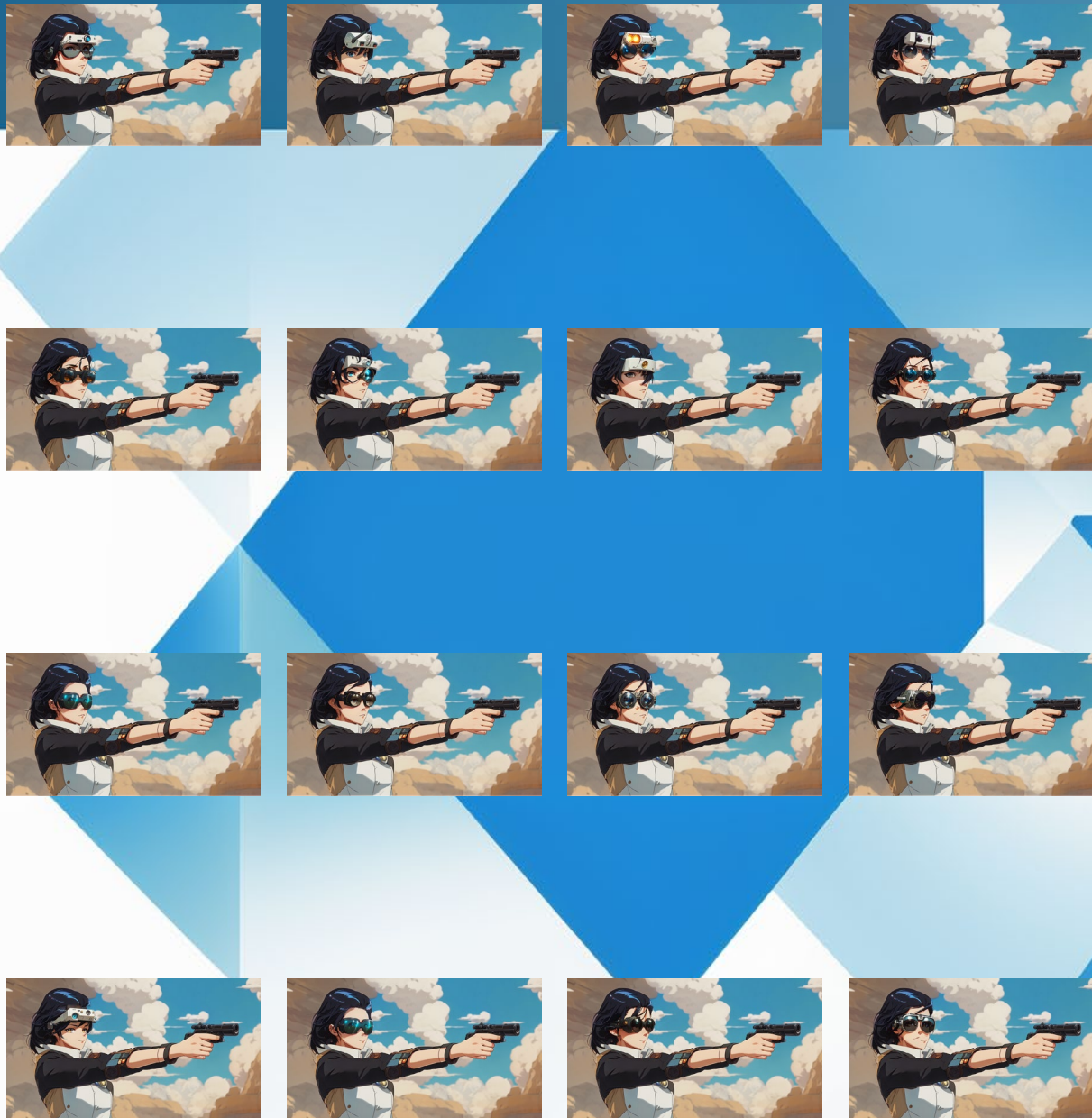


# Prompt Refinement





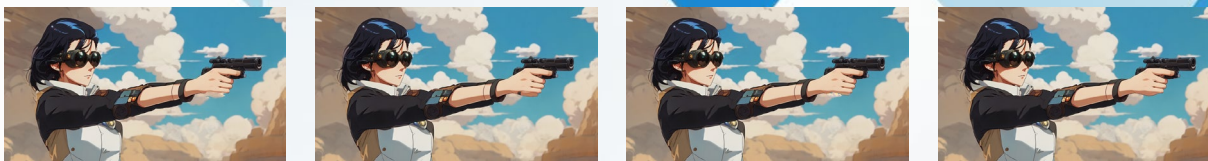
Face  
Replacement  
(40  
generations)



# 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



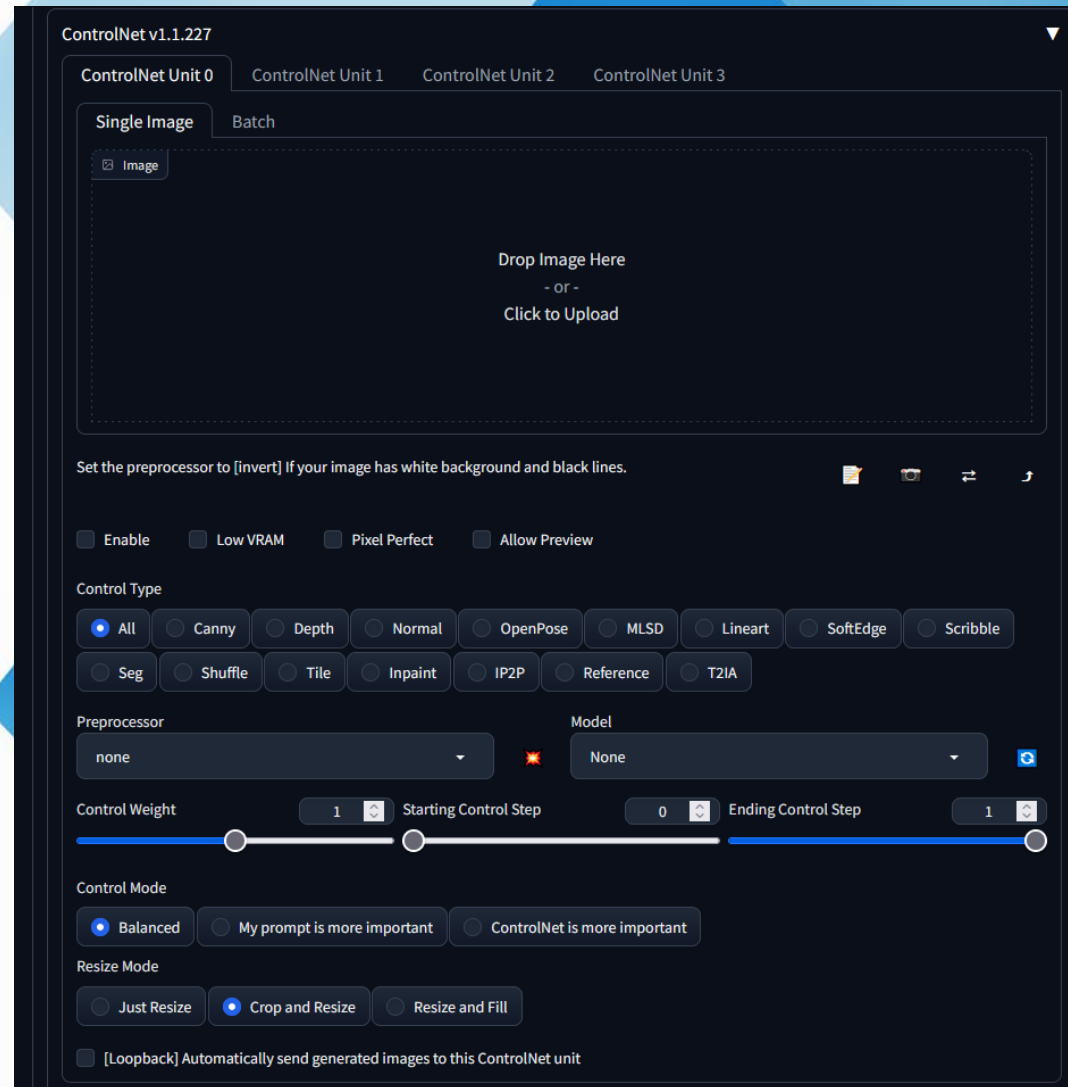


# Final Image



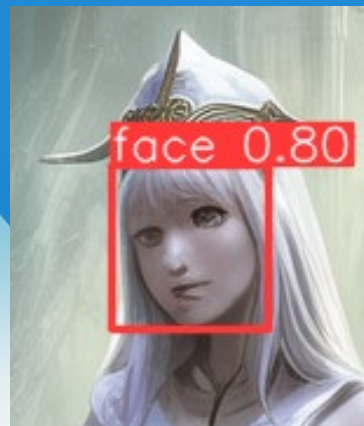


# ControlNet



# ADetailer

**Before**



**After**

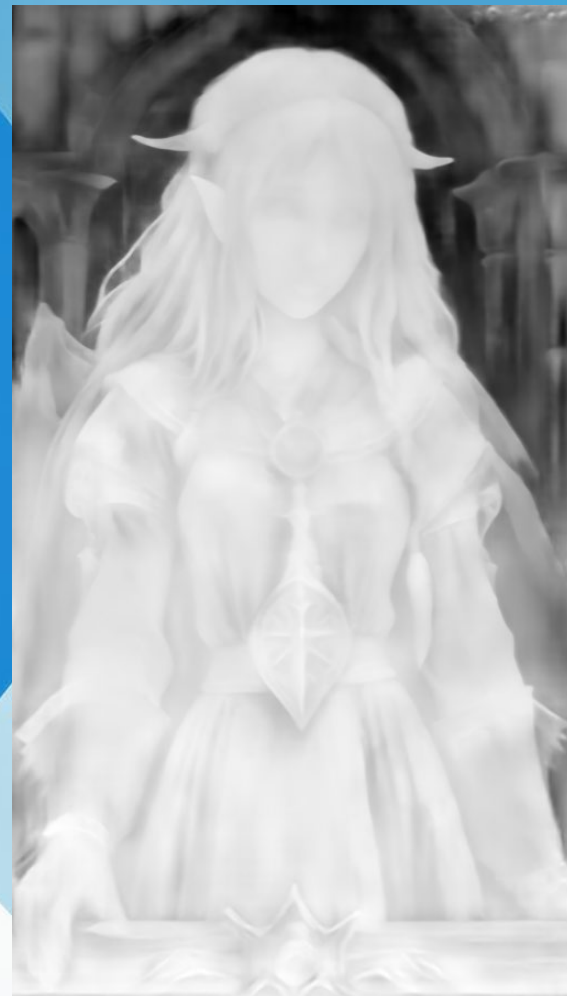


# Depth

**Input**



**Output**





# Depth Video



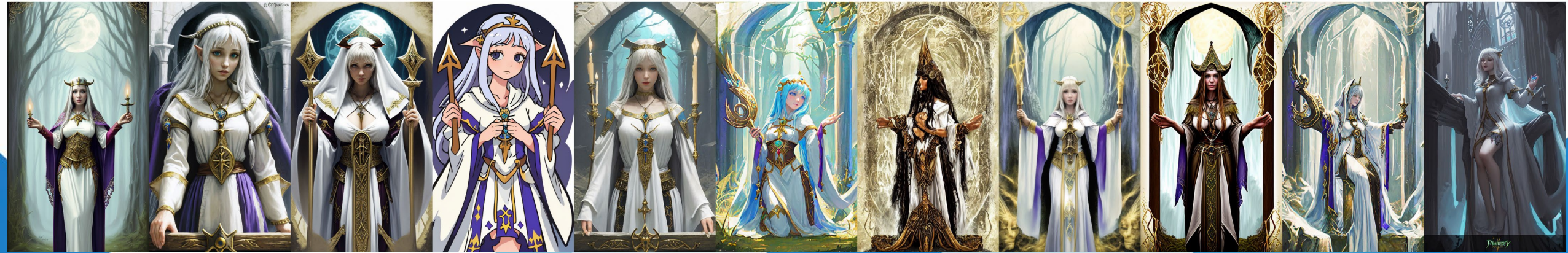


Well over 100 Community made  
Extensions



# Community Models

aZovyaPhotoreal\_v2.safetensors aZovyaRPGArtistTools\_v3VAE.safetensors dreamshaper\_7.safetensors flat2DAnimerge\_v30.safetensors majicmixLux\_v2.safetensorsmeinapastel\_V3.safetensors model.ckpt profantasy\_v22.safetensors RPG-v4.safetensors Silicon28.safetensors Silicon29-dark.safetensors  
[5594efef1c] [c8094fea44] [ed989d673d] [423dc55b3f] [53a24db033] [1e06255e39] [cc6cb27103] [afb613dacf] [e04b020012] [91f9f0dac1] [de329f31ad]





# LoRAs (Low-Rank Adaptation): Add Detail

<lora:add\_detail:0> <lora:add\_detail:-0.5> <lora:add\_detail:-1>



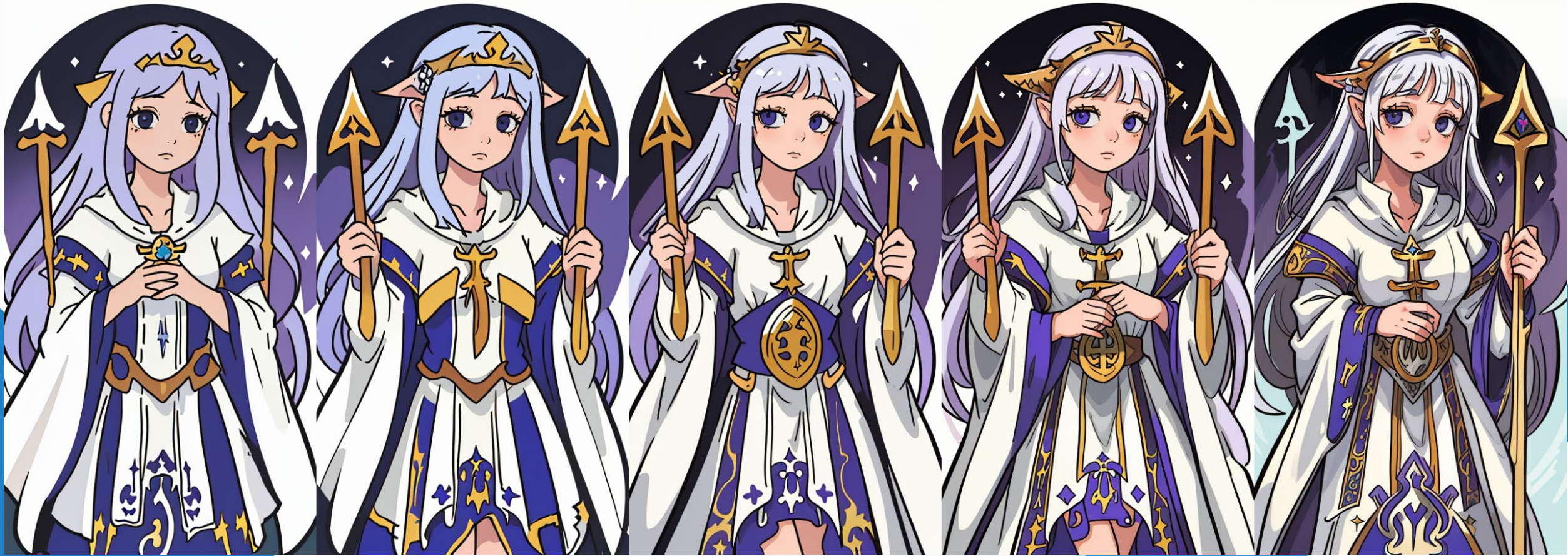
<lora:add\_detail:0> <lora:add\_detail:0.5> <lora:add\_detail:1>





# 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

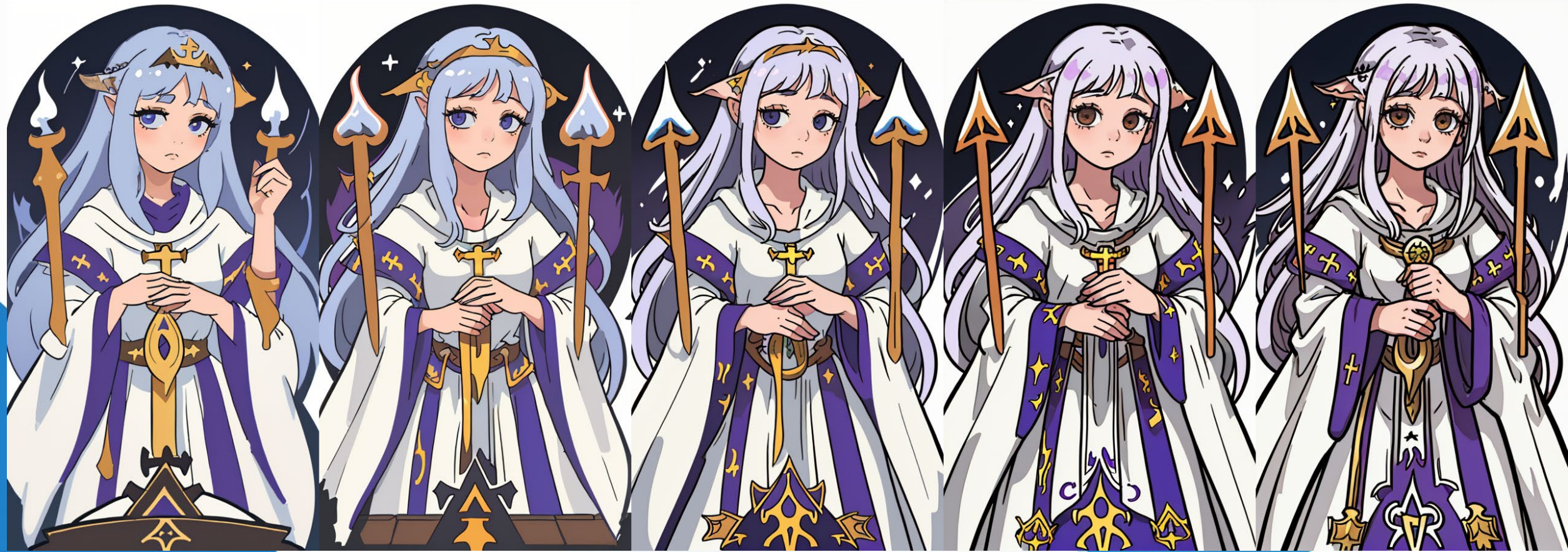
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# LoRAs: Line Width

<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

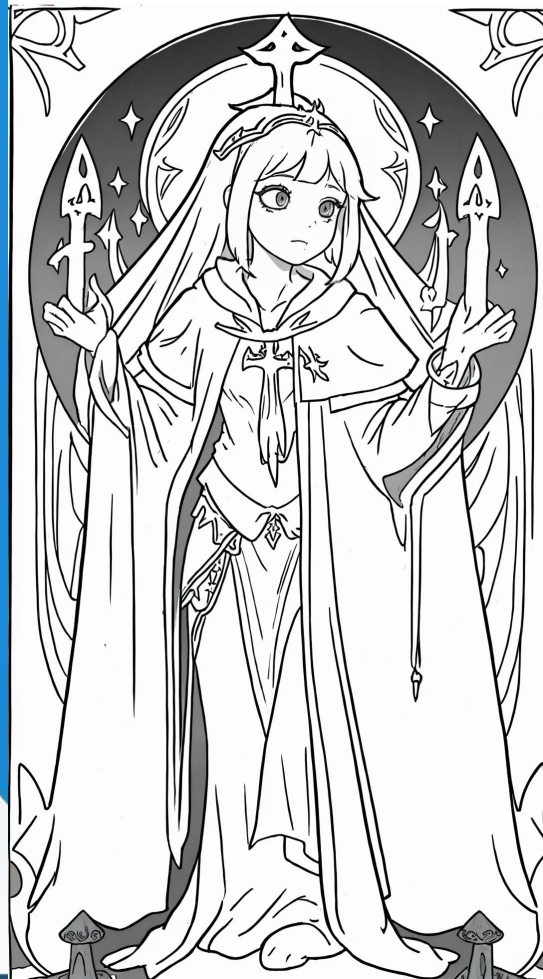
<lora:animeoutlineV4\_16:1>



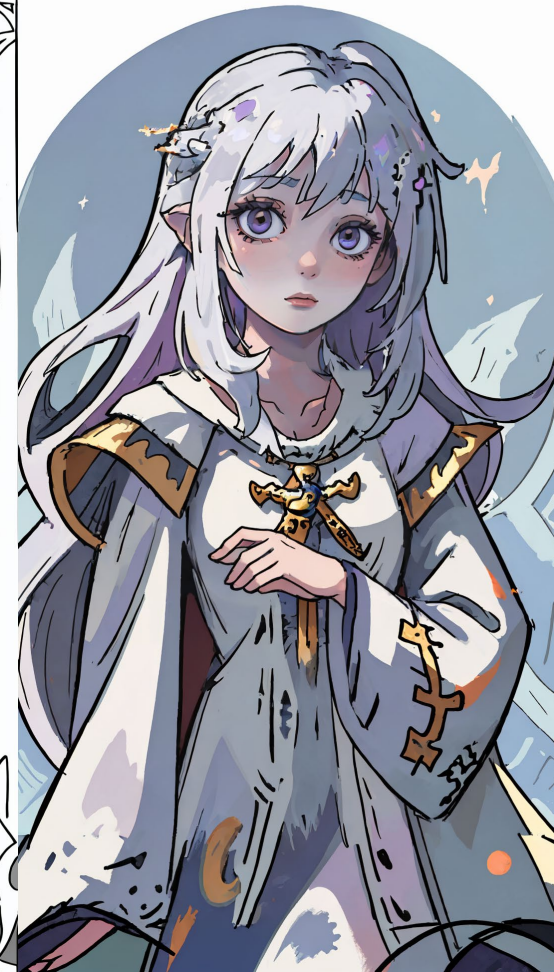
Oil Paint Style  
<lora:last:1>



<lora:animeoutlineV4\_16:1>



Oil Paint Style  
<lora:last:1>



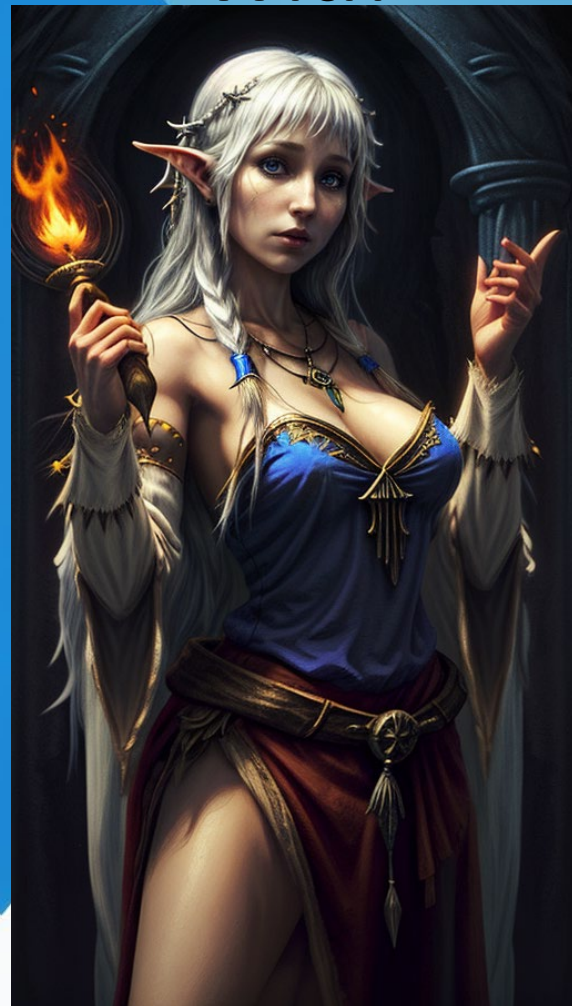


# LoRA: Contrast Fix

Without



With



The background features a complex geometric pattern of overlapping polygons in various shades of blue (from light to dark) and white. The shapes are angular and layered, creating a sense of depth and movement. The overall aesthetic is clean, modern, and professional.

Questions?