```
Attempting uninstall: torch
Found existing installation: torch 2.1.2
Uninstalling torch-2.1.2:
Successfully uninstalled torch-2.1.2
Successfully installed nvidia-cublas-cu12-12.1.3.1 nvidia-cuda-cupti-cu12-12.1.105 nvidia-cuda-nvrtc-cu12-12.1.105 nvidia-cuda-runtime-cu12-12.1.105 nvidia-cudnn-cu12-8.9.2
```

install all packages required

```
import torch
from torch import autocast
from diffusers import StableDiffusionPipeline, DDIMScheduler
from PIL import Image
import requests
from io import BytesIO
from IPython.display import display
# Initialize Stable Diffusion Pipeline
model_id = "SG161222/Realistic_Vision_V6.0_B1_noVAE"
pipe = StableDiffusionPipeline.from_pretrained(model_id, safety_checker=None, torch_dtype=torch.float16).to("cuda")
pipe.scheduler = DDIMScheduler.from_config(pipe.scheduler.config)
pipe.enable xformers memory efficient attention()
# Set the text prompt
prompt = "A woman wearing pink hair in a pink lace dress, in the style of hyperrealism and photorealism, UHD image, soft-focused realism, pastel color, babycore --ar 1:2 --q 2 --s 7
num samples = 1
guidance scale = 7.5
num inference steps = 24
height = 512
width = 512
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
    images = pipe(
        prompt,
       height=height,
        width=width,
        num images per prompt=num samples,
        num inference steps=num inference steps,
        guidance scale=guidance scale
   ).images
# Upscale the images to 2048 x 2048 pixels
upscaled images = []
for img in images:
    upscaled_img = img.resize((2048, 2048), Image.LANCZOS) # Upscale using Lanczos filter
    upscaled_images.append(upscaled_img)
# Display the original generated image
nrint("Original generated image.")
```

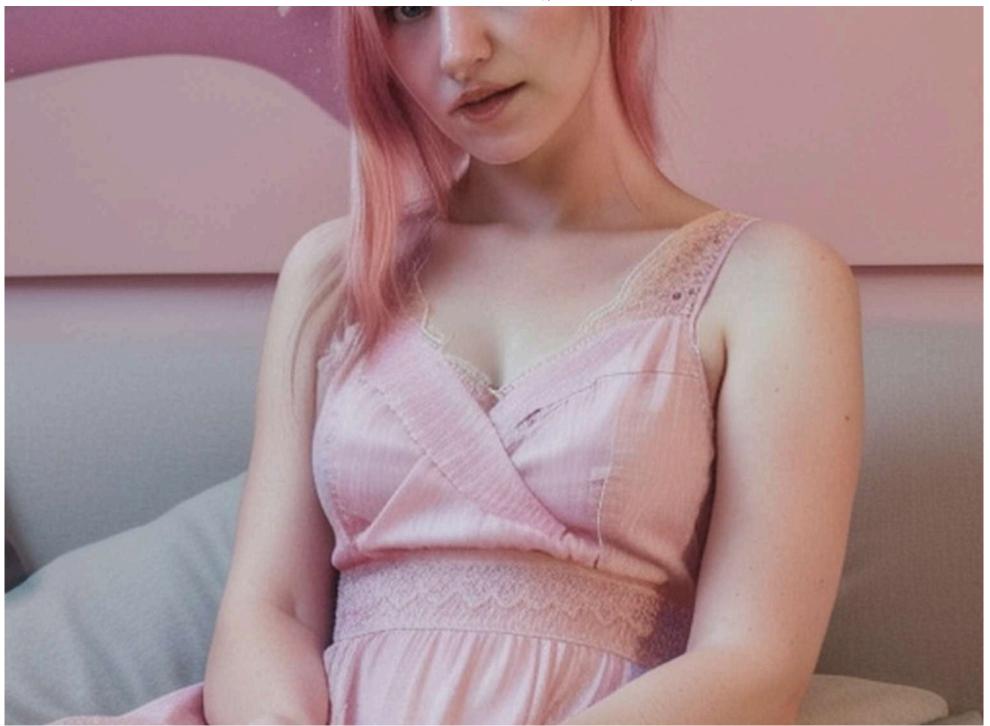
display(images[0])

Display the upscaled image
print("Upscaled image:")
display(upscaled_images[0])

t/diffusion_pytorch_model.safetensors not found ding pipeline components...: 0% | 0/6 [00:00<?, ?it/s] have disabled the safety checker for <class 'diffusers.pipelines.stable_diffusion.pipeline_stable_diffusion.StableDiffusionPipeline'> by passing `safety_checker=None`. Ensure t | 0/24 [00:00<?, ?it/s]







you can add photo to your prompt to make your gens look more photorealistic. Non-square aspect ratios work better for some prompts. If you want a portrait photo, try using a vertical aspect ratio. If you want a landscape photo, try using a horizontal aspect ratio. This model was trained on 768x768px images, so use 768x768px, 640x896px, 896x640px, etc. It also works pretty good with higher resolutions such as 768x1024px or 1024x768px.

advantages:

- 1. best for 512 X 512 base image and processing time is also less and provide efficency of 93%.
- 2. no distortion present in 512 pixel.
- 3. able to understand dress based prompts effectively.

disadvantages or limitations:

1. less efficency in eyes

```
# Set the text prompt
prompt = "A woman wearing pink hair in a pink lace dress, in the style of hyperrealism and photorealism, UHD image, soft-focused realism, pastel color, babycore --ar 1:2 --q 2 --s
num samples = 1
guidance scale = 7.5
num inference steps = 24
height = 768
width = 768
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
   images = pipe(
       prompt,
       height=height,
       width=width,
        num images per prompt=num samples,
       num inference steps=num inference steps,
        guidance scale=guidance scale
   ).images
# Upscale the images to 2048 x 2048 pixels
upscaled images = []
for img in images:
   upscaled_img = img.resize((2048, 2048), Image.LANCZOS) # Upscale using Lanczos filter
   upscaled_images.append(upscaled_img)
# Display the original generated image
print("Original generated image:")
display(images[0])
# Display the upscaled image
print("Upscaled image:")
display(upscaled images[0])
```

0% | 0/24 [00:00<?, ?it/s]
Original generated image:











you can add photo to your prompt to make your gens look more photorealistic. Non-square aspect ratios work better for some prompts. If you want a portrait photo, try using a vertical aspect ratio. If you want a landscape photo, try using a horizontal aspect ratio. This model was trained on 768x768px images, so use 768x768px, 640x896px, 896x640px, etc. It also works pretty good with higher resolutions such as 768x1024px or 1024x768px.

advantages:

- 1. better for 768 X 768 base image and processing time is also less and provide efficency of 90%.
- 2. no distortion present in 512 pixel.
- 3. able to understand dress based prompts effectively.

disadvantages or limitations:

1. less efficency in eyes

```
# Set the text prompt
prompt = "A woman wearing pink hair in a pink lace dress, in the style of hyperrealism and photorealism, UHD image, soft-focused realism, pastel color, babycore --ar 1:2 --q 2 --s
num samples = 1
guidance scale = 7.5
num inference steps = 24
height = 1024
width = 1024
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
   images = pipe(
       prompt,
       height=height,
       width=width,
        num images per prompt=num samples,
       num inference steps=num inference steps,
        guidance scale=guidance scale
   ).images
# Upscale the images to 2048 x 2048 pixels
upscaled images = []
for img in images:
   upscaled_img = img.resize((2048, 2048), Image.LANCZOS) # Upscale using Lanczos filter
   upscaled_images.append(upscaled_img)
# Display the original generated image
print("Original generated image:")
display(images[0])
# Display the upscaled image
print("Upscaled image:")
display(upscaled images[0])
```

0% | 0/24 [00:00<?, ?it/s]
Original generated image:



advantages:

- 1. better than dreamart for 1024 X 1024 base image and processing time is little high than dreamartai.
- 2. no distortion present in 512 pixel.
- 3. able to understand dress based prompts effectively.

disadvantages or limitations:

1. less efficency in eyes

```
# Set the text prompt
prompt = "A woman wearing pink hair in a pink lace dress, in the style of hyperrealism and photorealism, UHD image, soft-focused realism, pastel color, babycore --ar 1:2 --q 2 --s
num samples = 1
guidance scale = 7.5
num inference steps = 24
height = 2048
width = 2048
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
   images = pipe(
       prompt,
       height=height,
       width=width,
        num images per prompt=num samples,
       num inference steps=num inference steps,
        guidance scale=guidance scale
   ).images
# Upscale the images to 2048 x 2048 pixels
upscaled images = []
for img in images:
   upscaled_img = img.resize((2048, 2048), Image.LANCZOS) # Upscale using Lanczos filter
   upscaled_images.append(upscaled_img)
# Display the original generated image
print("Original generated image:")
display(images[0])
# # Display the upscaled image
# print("Upscaled image:")
# display(upscaled_images[0])
```

0%| | 0/24 [00:00<?, ?it/s]
Original generated image:





advantages:

1. able to create 2048 X 2048 base image

disadvantages or limitations:

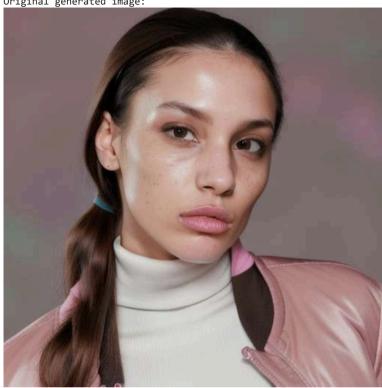
- 1. less efficency in eyes
- 2. processing time is too high.
- 3. ditortion
- 4. multiple images of person in same image

OTHER PROMPTS EXAMPLES

```
prompt = "portrait of a trendy light brown skinned woman, emotive, rebellious facial features, futuristic turtle neck and jacket, iconic album cover, washed colors, studio lighting
num samples = 1
guidance_scale = 7.5
num inference steps = 24
height = 512
width = 512
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
   images = pipe(
        prompt,
       height=height,
       width=width,
       num_images_per_prompt=num_samples,
       num inference steps=num inference steps,
        guidance scale=guidance scale
   ).images
# Upscale the images to 2048 x 2048 pixels
upscaled images = []
for img in images:
   upscaled_img = img.resize((2048, 2048), Image.LANCZOS) # Upscale using Lanczos filter
   upscaled_images.append(upscaled_img)
# Display the original generated image
print("Original generated image:")
display(images[0])
# Display the upscaled image
print("Upscaled image:")
display(upscaled images[0])
```

The following part of your input was truncated because CLIP can only handle sequences up to 77 tokens: [': 9'] 0% | 0/24 [00:00<?, ?it/s]

Original generated image:



Upscaled image:

