```
!pip install diffusers
!pip install xformers
```

```
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 = "stablediffusionapi/cyberrealistic"
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
print("Original generated image:")
display(images[0])

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

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

```
Upscaled image:
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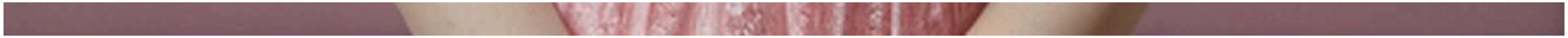


you can add photo to your prompt to make your gens look more photorealistic. Non-square aspect ratios work better for some prompts. If you want a portrait photo, try using a vertical aspect ratio. If you want a landscape photo, try using a horizontal aspect ratio. This model was trained on 768x768px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

advantages:

1. better for 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
2. sometimes cartonistic image generation

```
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

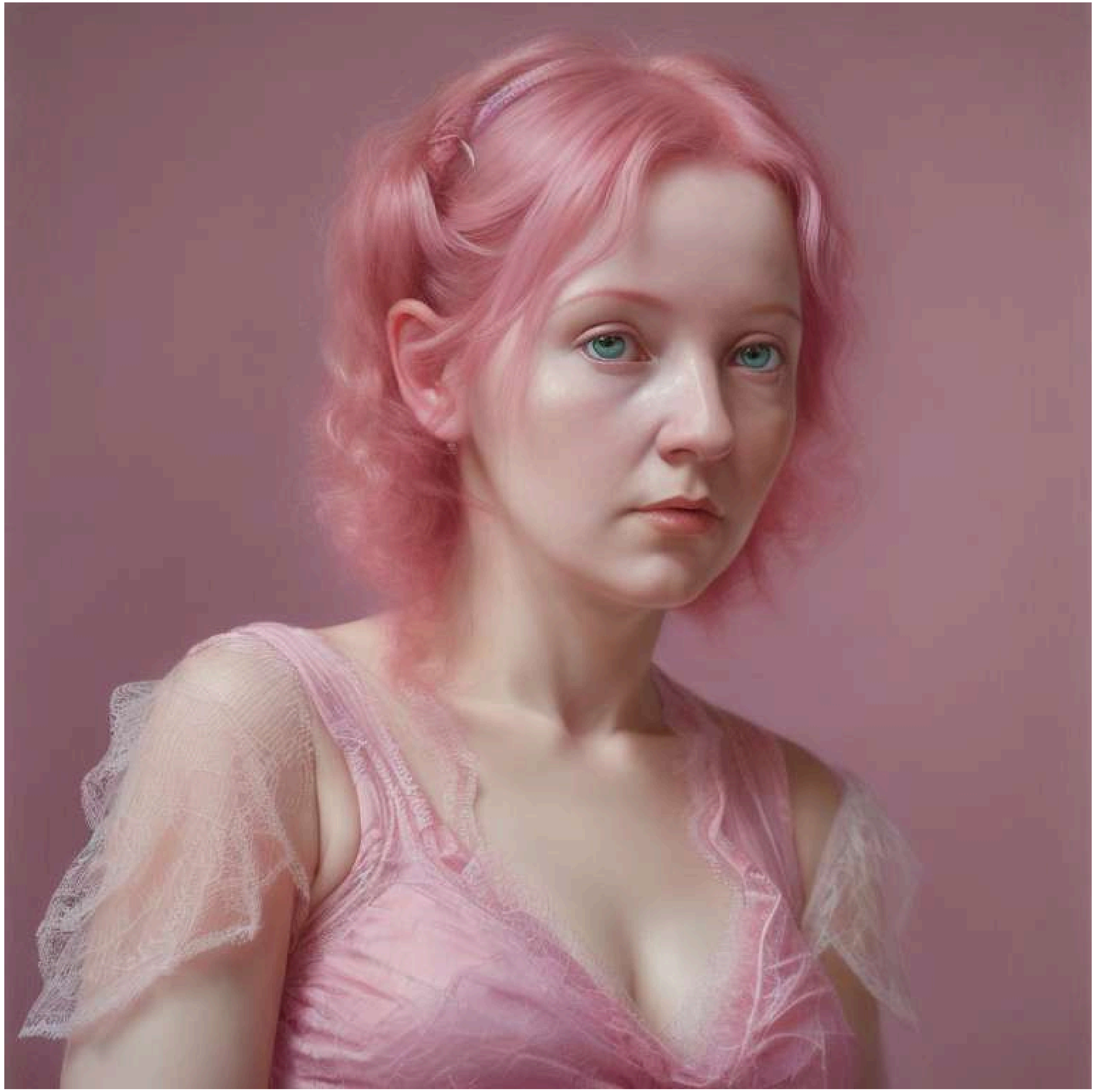
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
    images = pipe(
        prompt,
        height=height,
        width=width,
        num_images_per_prompt=num_samples,
        num_inference_steps=num_inference_steps,
        guidance_scale=guidance_scale
    ).images

# 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)

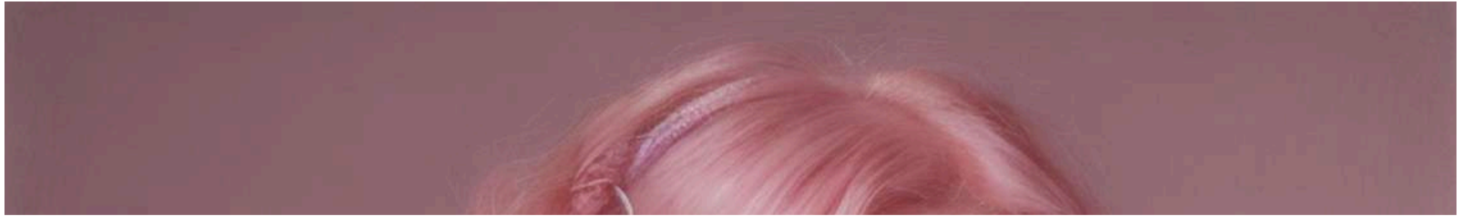
# Display the original generated image
print("Original generated image:")
display(images[0])

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

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



```
Upscaled 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 etc. It also works pretty good with higher resolution

advantages:

1. better for 768 X 768 base image and processing time is also less and provide efficency of 95%.
2. no distortion present in 768 pixel.
3. able to understand dress based prompts effectively.

disadvantages or limitations:

1. less efficency in eyes
2. sometimes cartonistic image generation

LIMITATION EXAMPLES

```
prompt = "photography, long-distance shot, man model, seated on chair, green long undercut, dark deep forest color loose-fit hoody with gothic lettering tattoo, garment-dyed black
num_samples = 1
guidance_scale = 7.5
num_inference_steps = 24
height = 1024
width = 1024

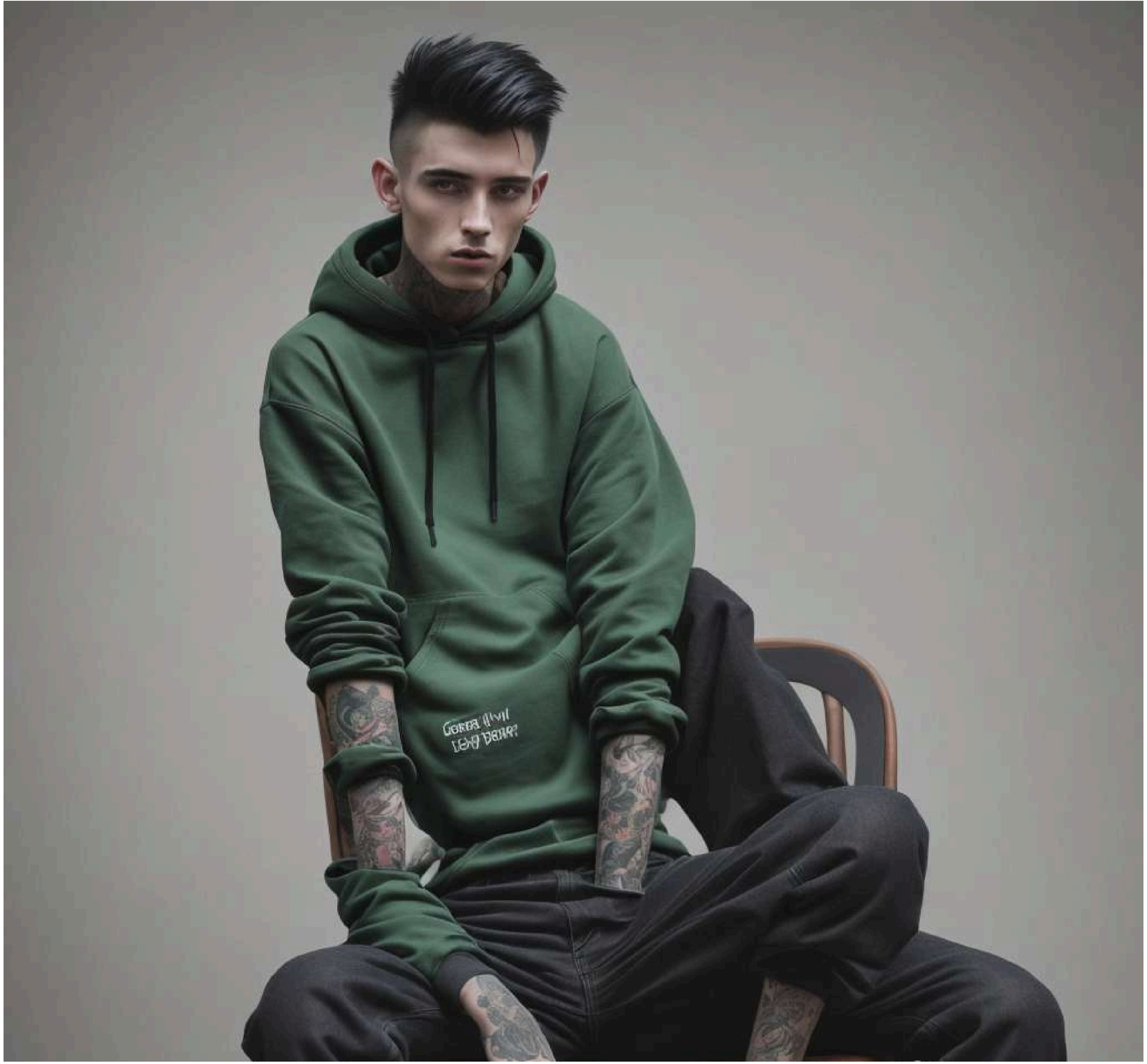
# Generate images based on the prompt
with autocast("cuda"), torch.inference_mode():
    images = pipe(
        prompt,
        height=height,
        width=width,
        num_images_per_prompt=num_samples,
        num_inference_steps=num_inference_steps,
        guidance_scale=guidance_scale
    ).images

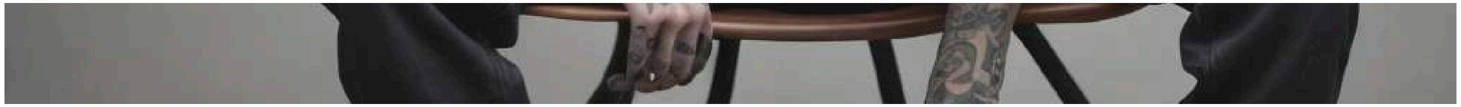
# Upscale the images to 2048 x 2048 pixels
upscaled_images = []
for img in images:
    upscaled_img = img.resize((2048, 2048), Image.LANCZOS)  # Upscale using Lanczos filter
    upscaled_images.append(upscaled_img)

# Display the original generated image
print("Original generated image:")
display(images[0])

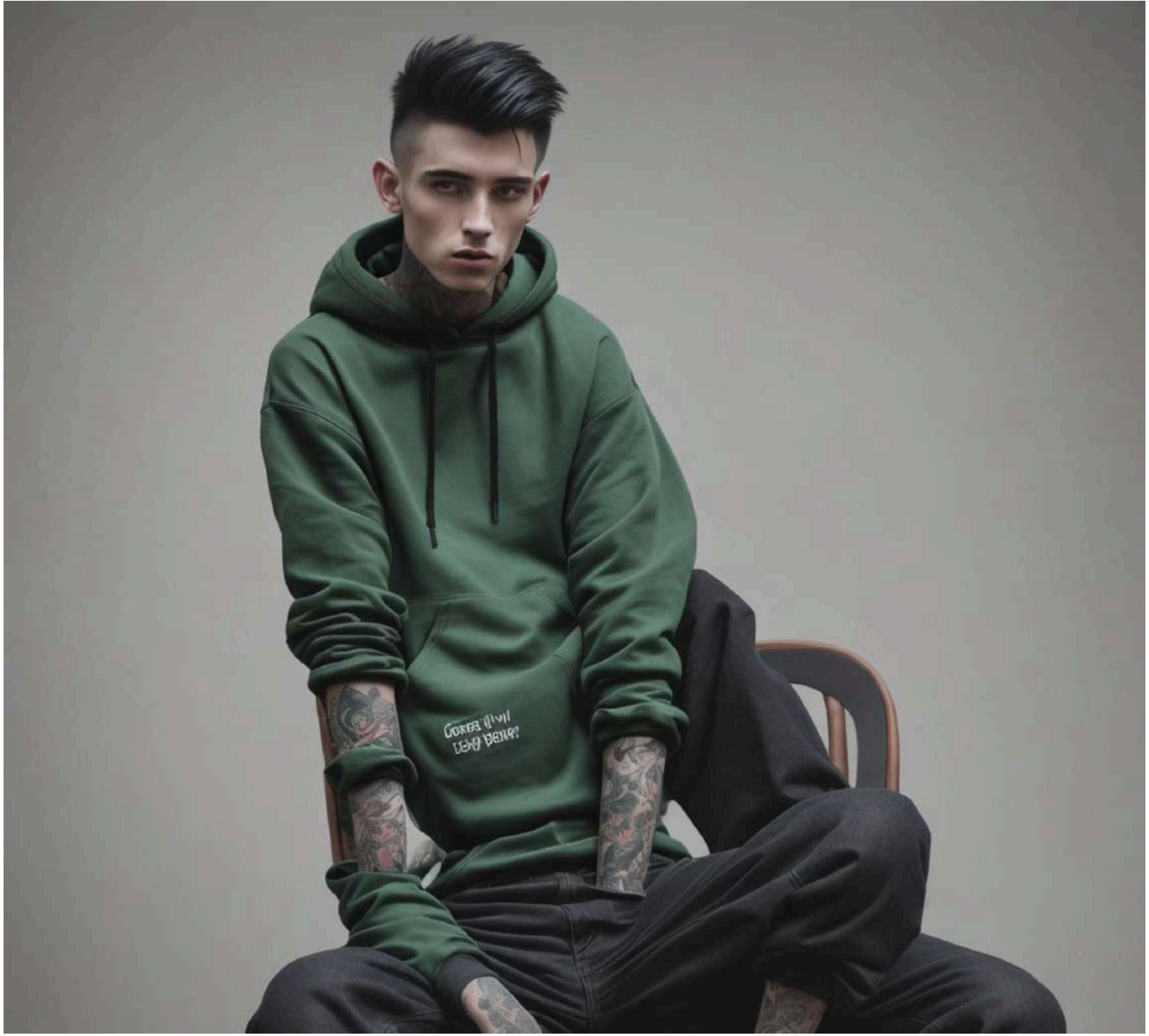
# Display the upscaled image
print("Upscaled image:")
display(upscaled_images[0])
```

```
The following part of your input was truncated because CLIP can only handle sequences up to 77 tokens: ['gaze into the camera, m
  0%|          | 0/24 [00:00<?, ?it/s]
Original generated image:
```





```
Upscaled image:
```



Provide distorted image for greater than 768 pixel multiple person's or multiple body of same person

```
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:
```

```
Upscaled image:
```

we can able to create 2048X2048 pixel image through model but image efficiency too low ** **Provide distorted image for greater than 768 pixel multiple person's or multiple body of same person

EXAMPLES WITH DIFFERENT PROMPTS

```
prompt = "a man with jacket in the style of post-'70s ego generation, photo taken with provia, grandeur of scale, rangercore, full body, ue5, royalcore --v 5. 2 --ar 85:128"
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])
```

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

```
Upscaled image:
```