Image Generation in the Real World

I wanted to make digital/animated music videos

for my music without spending money.

What I needed in an image generation tool:

- FREE!
- Video to video
- User friendly
- Smooth/not flickery

Warpfusion

https://github.com/Sxela/WarpFusion Stable_warpfusion.ipynb https://www.patreon.com/sxela

Free 🗶 🗸 (mostly free)
Video to video 🗸
User friendly 🔽
Visually Smooth vid2vid 🗸

- Based on disco diffusion
 - http://discodiffusion.com/
- Optional to support developer on Patreon
- Provides updates to warpfusion to include new features such as controlnets, loras, stable diffusion XL
- Tech support
- Discord community

Problems I ran into

- Google Colab became expensive
- Current hardware was too slow or could not handle image generation I wanted to do
- Initial set up can be difficult
 - I had trouble installing CUDAs/ setting up paths for cuda and python

Success!

clips of music videos
Full music video for my music

How to use warpfusion

https://github.com/Sxela/WarpFusion

Stable_warpfusion.ipynb

https://www.patreon.com/sxela



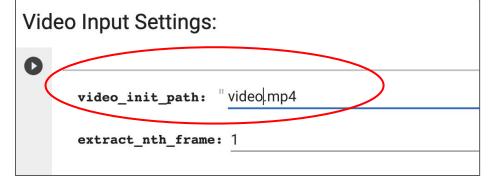
Basic Settings:

batch_name: "stable_warpfusion_0.13.0

Specify desired output size here.

Don't forget to rerun all steps after changing the width height (including forcing op

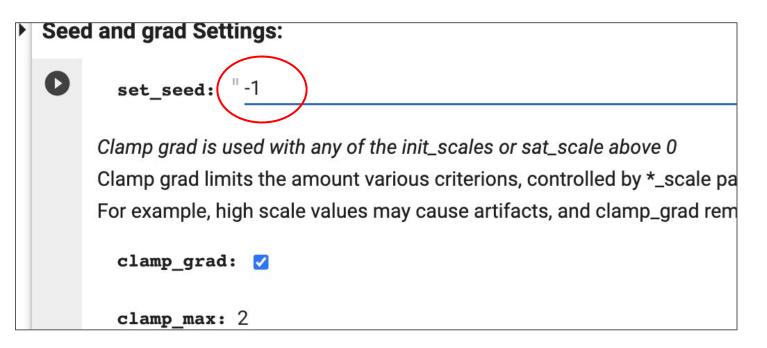
width_height: [1280,720]



```
define SD + K functions, load model
     specify path to your Stable Diffusion checkpoint (the "original" flavor)
       model_version: control_multi
       vae_ckpt: "Insert text here
       load to: gpu
       quantize: <
       no_half_vae: 

       model path. / content/drive/MyDrive/models/protogenV22Anime_22.safetensors
     ControlNet download settings ControlNet downloads are managed by controlnet_multi settings in Main settings tab.
       force download: 

                                   /ControlNet
       controlnet_models_dir:
```



Prompts

animation_mode: None will only use the first set. animation_mode: 2D / Video will run through them per the set fram last one.

```
1 text_prompts = {0: ['a beautiful highly detailed cyberpunk mechanical \
2 augmented most beautiful (woman) ever, cyberpunk 2077, neon, dystopian, \
3 hightech, trending on artstation']}
4
5 negative_prompts = {
6     0: ["text, naked, nude, logo, cropped, two heads, four arms, lazy eye, blurry, unfocused"]
7 }
```

Main settings.

Duplicated in the GUI and can be loaded there.

```
1 # DD-style losses, renders 2 times slower (!) and more memory intensive :D
3 latent scale schedule = [0,0] #controls coherency with previous frame in latent spa
4 init scale schedule = [0,0] #controls coherency with previous frame in pixel space.
5 sat scale = 0
7 init grad = False #True - compare result to real frame, False - to stylized frame
8 grad denoised = True #fastest, on by default, calc grad towards denoised x instead
1 steps schedule = {
      0: 25
3 } #schedules total steps. peeful with low strength, when you end up with only 10 st
4 style strength schedule = \{[0.7] \times [0.5] + [0.2] \times 149 + [0.3] \times 3 + [0.2] \text{ #use this instead of } 
5 flow blend schedule = [0.8] #50r example [0.1]*3+[0.999]*18+[0.3] will fade-in for
6 cfg scale schedule = [15] #text2image strength, 7.5 is a good default
7 blend json schedules True #True - interpolate values between keyframes. False - u
9 dynamic thresh = 30
```

Style strength:

The higher the number, the more it follows the prompt

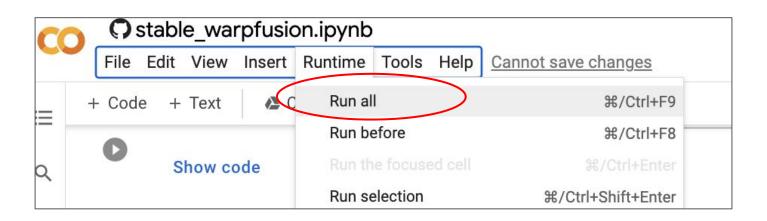
The lower the number, the more it resembles the original video

```
controlnet multimodel = {
  "control sd15 depth": {
    "weight": 0,
   "start": 0,
    "end": 1
  "control sd15 canny": {
    "weight": 0,
    "start": 0,
    "end": 1
  "control sd15 softedge": {
    "weight": 1,
   "start": 0,
    "end": 1
  "control sd15 mlsd": {
    "weight": 0,
    "start": 0,
    "end": 1
  "control sd15 normalbae":
   "weight": 1,
   "start": 0,
    "end": 1
  "control sd15 openpose": {
    "weight": 1,
    "start": 0,
    "end": 1
  "control sd15 scribble": {
   "weight" · 0
```

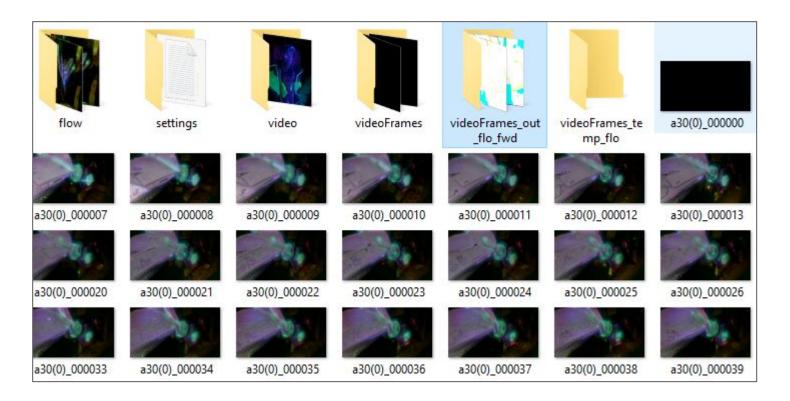
LORA & embedding paths

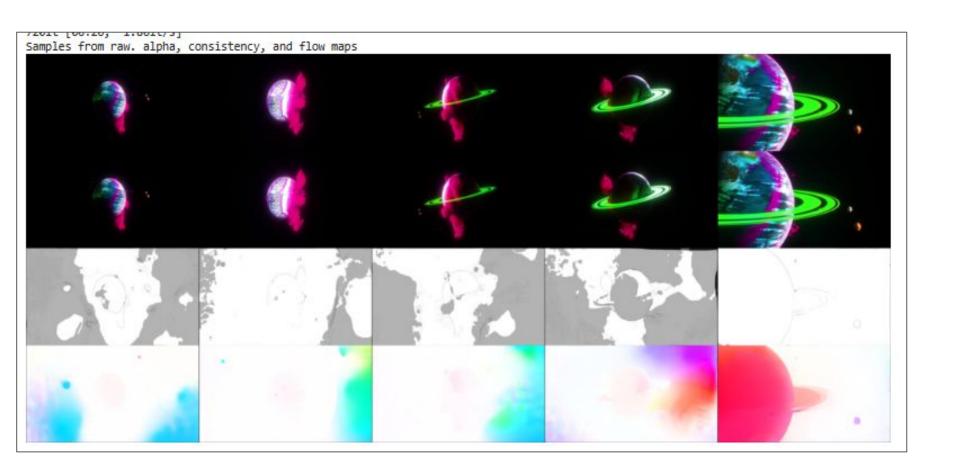


custom_embed_dir: (/content/drive/MyDrive/models/embeddings)



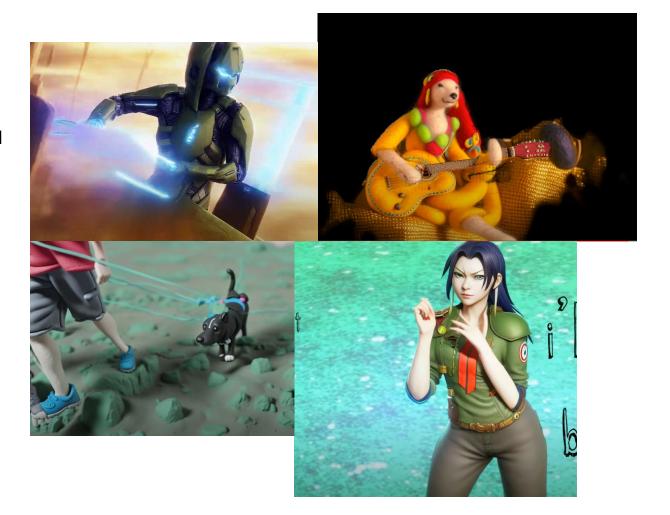
It takes ~30 minutes to start generating images. It depends how long the video is.





- I practiced by making fan art
- Eventually led to some paid work

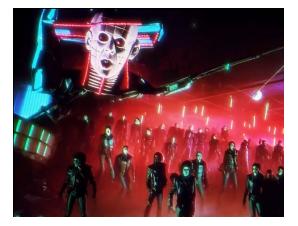
Revolver Magazine @g.m.zero





Look What I Did - Jekyll Island Fiat Scratch





Gromo - Prologue/The Vortex (Short Film)



MIZMOR - No Place To Arrive

Frost Children - HI 5

Tools in my current workflow:

- <u>Civitai.com</u> (models, loras)
- Lexica.art
- Warpfusion
- Adobe Premiere Pro
- Adobe After Effects
- Topaz Video Al

Let me know if you have any questions.

Thanks!