

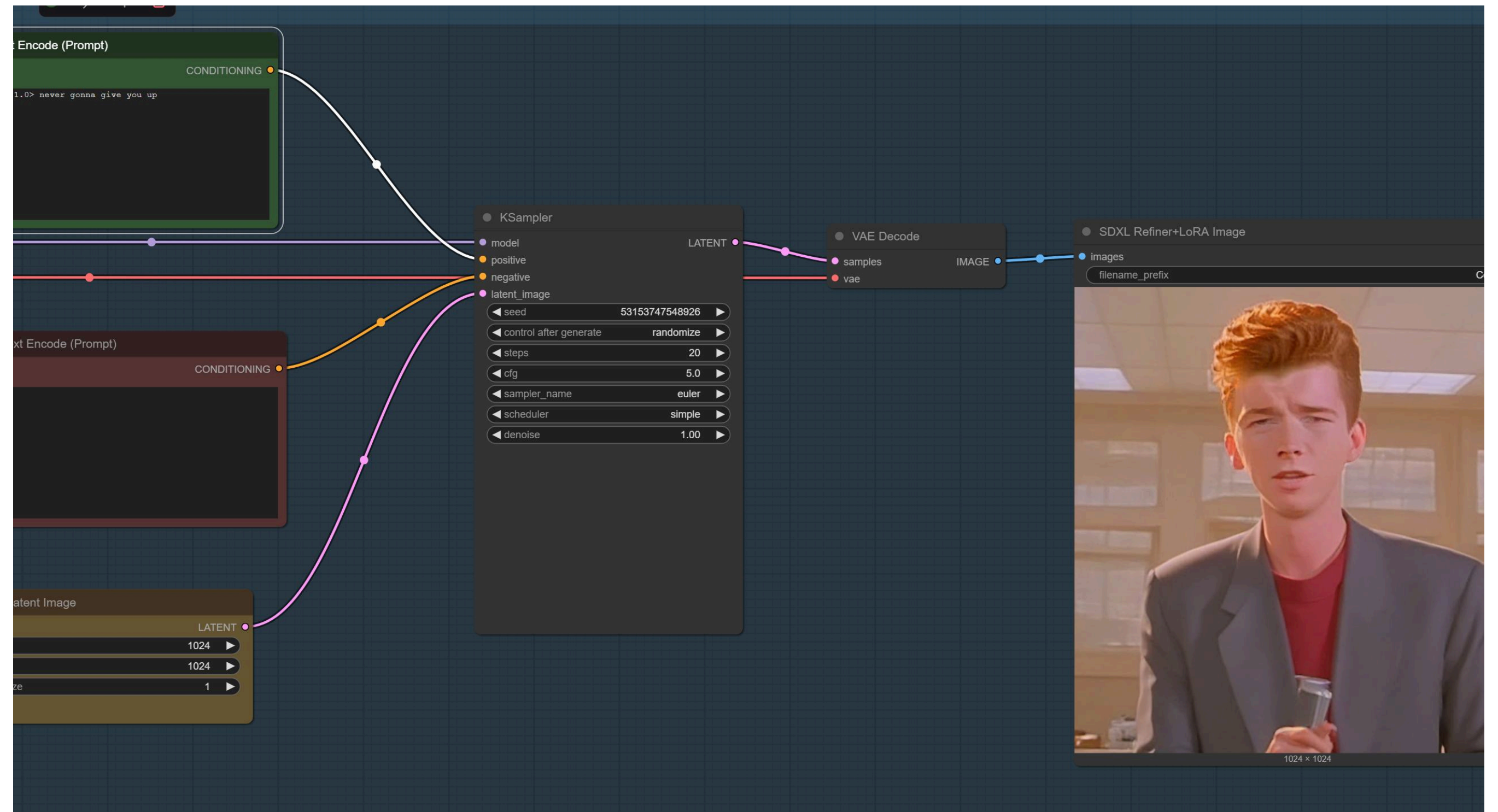
# LoRAstley

IAT 460 project by Ethan Lum



# Concept

LoRAstley is a Lora for SDXL 1.0 that helps generate 1024×1024 images of Rick Astley specifically from the Never Gonna Give You Up video that can be run in ComfyUI.



# Training

LoRAstley was trained using the Kohya SS GUI on an RTX 4070 Super and it took roughly 8hrs to train with a batch size of 1, 10 epochs and learning rate of 0.0004.

Basic

LoRA type

Standard

Network weights

Path to an existing LoRA network weights to resume training from

(Optional)

Automatically determine the dim(rank) from the weight file.

☐ DIM from weights

Train batch size

1

Epoch

10

Max train epoch

training epochs (overrides max\_train\_steps), 0 = no override

0

Max train steps

Overrides # training steps. 0 = no override

1600

Save every N epochs

2

Caption file extension

.txt

Seed

Set to 0 to make random

0

☒ Cache latents

☒ Cache latents to disk

LR Scheduler

constant

Optimizer

Adafactor

Max grad norm

1

LR scheduler extra arguments

(Optional) eg: milestones=[1,10,30,50] gamma=0.1

Optimizer extra arguments

scale\_parameter=False relative\_step=False warmup\_init=False

Learning rate

Set to 0 to not train the Unet

0.0004

LR warmup (% of total steps)

Can't use LR warmup with LR Scheduler constant... setting to 0 and disabling field...

0

```
INFO neuron dropout: p=None, rank dropout: p=None, module dropout: p=None lora.py:929
INFO create LoRA for Text Encoder 1: lora.py:1020
INFO create LoRA for Text Encoder 2: lora.py:1020
2025-04-01 21:46:05 INFO create LoRA for Text Encoder: 264 modules. lora.py:1028
2025-04-01 21:46:11 INFO create LoRA for U-Net: 722 modules. lora.py:1036
INFO enable LoRA for text encoder: 264 modules lora.py:1077
INFO enable LoRA for U-Net: 722 modules lora.py:1082
prepare optimizer, data loader etc.
INFO use Adafactor optimizer | {'scale_parameter': False, 'relative_step': False, 'warmup_init': False} train_util.py:4485
WARNING because max_grad_norm is set, clip_grad_norm is enabled. consider set to 0 / train_util.py:4513
max_grad_normが設定されているためclip_grad_normが有効になります。0に設定して無効にしたほうがいいかもしれません
WARNING constant_with_warmup will be good / train_util.py:4517
スケジューラはconstant_with_warmupが良いかもしれません
running training / 学習開始
num train images * repeats / 学習画像の数×繰り返し回数: 200
num reg images / 正則化画像の数: 0
num batches per epoch / 1epochのバッチ数: 200
num epochs / epoch数: 8
batch size per device / バッチサイズ: 1
gradient accumulation steps / 勾配を合計するステップ数 = 1
total optimization steps / 学習ステップ数: 1600
steps: 0%| | 0/1600 [00:00<?, ?it/s]
epoch 1/8
2025-04-01 21:46:35 INFO epoch is incremented. current_epoch: 0, epoch: 1 train_util.py:703
steps: 0%|| | 8/1600 [03:05<10:14:27, 23.16s/it, avr_loss=0.152]|
```



# Creative Decisions

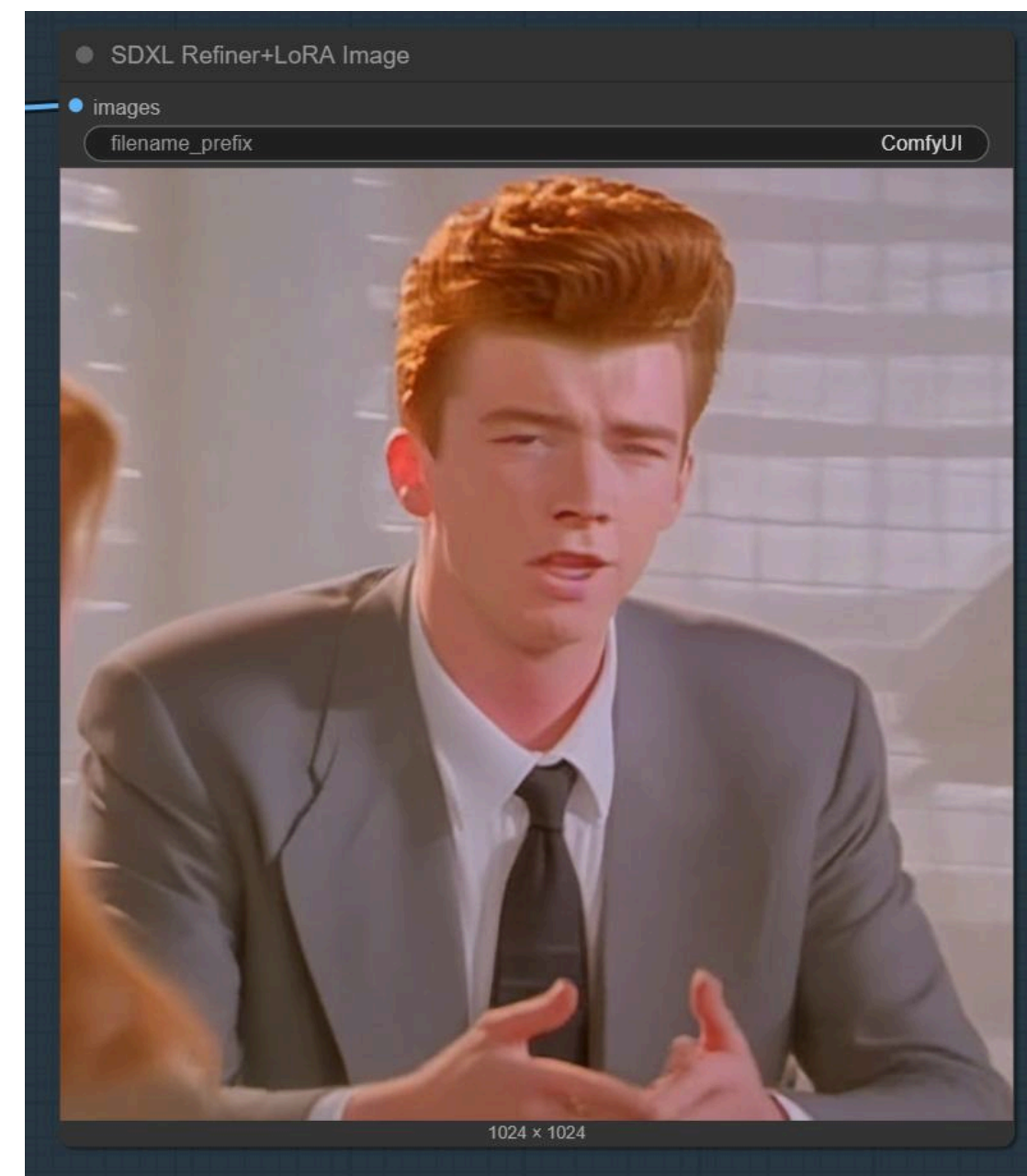
The goal was to make a LoRA which would allow users to create images specifically from the Rick Roll, since SDXL base model could not do so accurately.



# Comparison



SDXL base model



LoRAstley (Mine)

Prompt "<lora:rickv4:1.0>  
never gonna give you up"

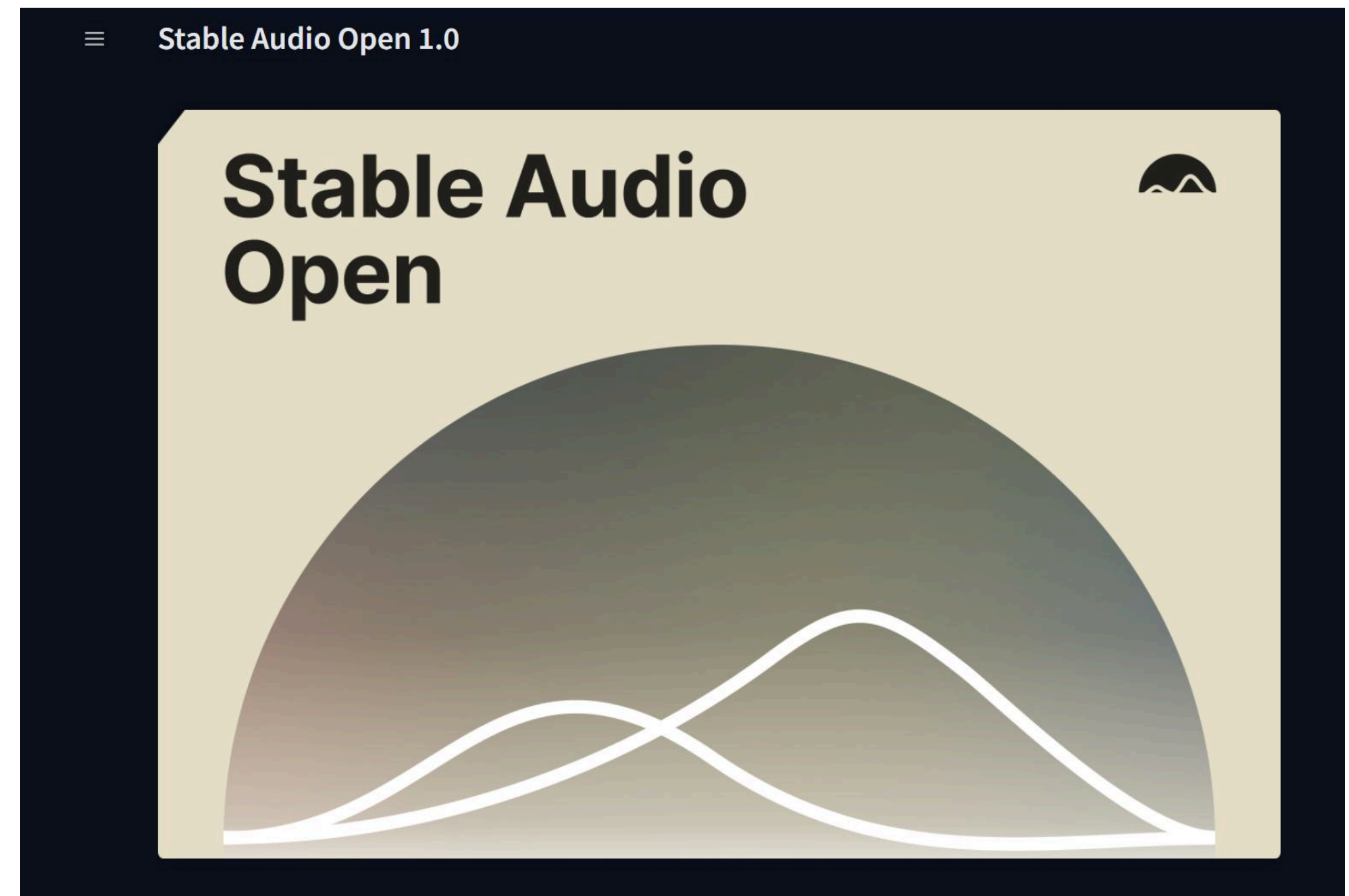


Original rick roll video



# Challenges

My original project idea 'Bass Crafter' had to be completely scrapped a week before the "deadline" and I had no good windows PC / GPU



# Demo video

<https://youtu.be/w0T6svByJYI>

