

Feasibility Study

Diffusion Image Generation Assistant



Diffusion 생성 Library

Several Libraries

- Mostly based on pretrained stable diffusion
- Additional training to offer specific image styles

Contents

1. Diffusion Libraries & Models
2. Existing diffusion assistants
3. Diffusion chrome extension
4. Core technology

Diffusion 생성 Library

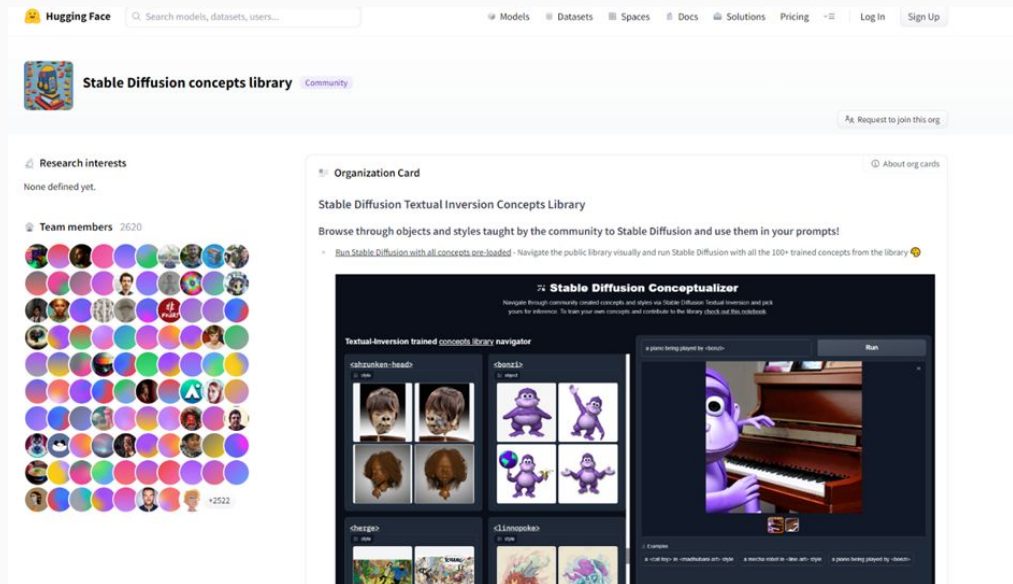
Hugging face

: 여러 모델의 구현 제공

: Demo 페이지 제공

: 전처리된 모델 제공

<https://huggingface.co/sd-concepts-library>



Diffusion 생성 Library

Hugging face

: OrangeMixs

- options
- hard : 애니+실사 느낌의 AI 모델
- nsfw : 검열이 없는 버전의 AI 모델
- sfw : 검열이 약간 있는 버전의 AI 모델

<https://huggingface.co/WarriorMama777/OrangeMixs>

Diffusion 생성 Library

Hugging face

: Basil_mix

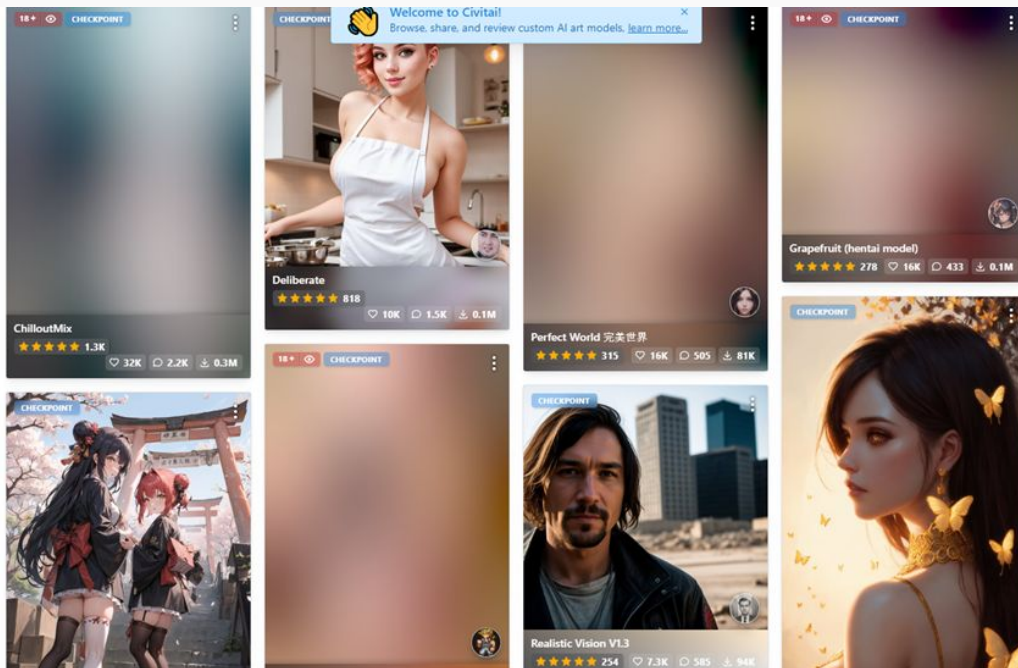
- 실사 그림

https://huggingface.co/nuiqurumi/basil_mix/tree/main

Diffusion 생성 Library

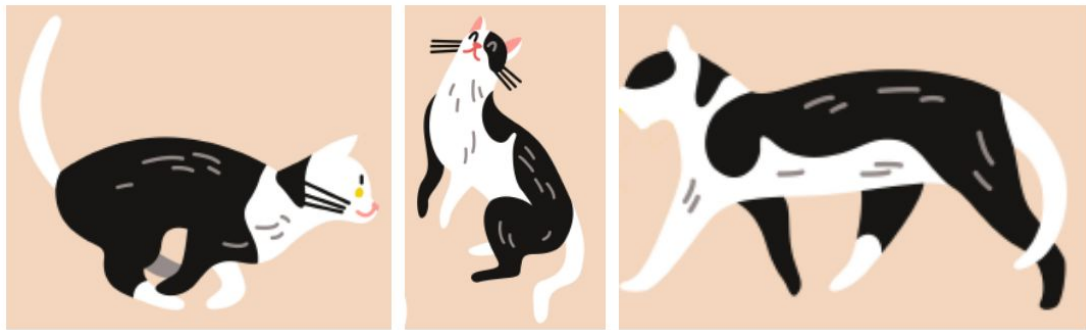
Civitai

<https://civitai.com/>



Diffusion Assistants

- Novel AI 태그 생성기 <https://novelai.app/>
- Low-Rank Adaptation of Large Language Models: 특정 그림체를 학습시키거나 아니면 특정 캐릭터만 찍어낼 수 있도록 만든 파일.



Diffusion Chrome extension

- Stable Diffusion prompt typing assistant.
 - <https://chrome.google.com/webstore/detail/stable-diffusion-prompt-t/dbjmlleeimjolifnjbmjpaooibaodhceg>
 - recommend tags for stable diffusion web ui
- Dreamer
 - <https://chrome.google.com/webstore/detail/dreamer/kboadfgomgjcaphhjgcecfhmbpikehho/related?hl=ko>
 - DreamStudio API key -> buying credits
 - img 2 img

Core Technology

- Image Generation
 - Pretrained Stable Diffusion model : OSS library
 - Several models based on stable diffusion : OSS library
- CLIP
 - <https://openai.com/research/clip>
 - Image-text relation -> text captioning
 - text embedding
- Model inferring relationship between embedded text and tags
 - Lots of examples for image generation and tag
 - make word set pair consists of text captions and tags
- Chrome extension
 - Getting image
 - Connection between stable diffusion ui and chrome extension

Thank You