

Different versions of StableDiffusion

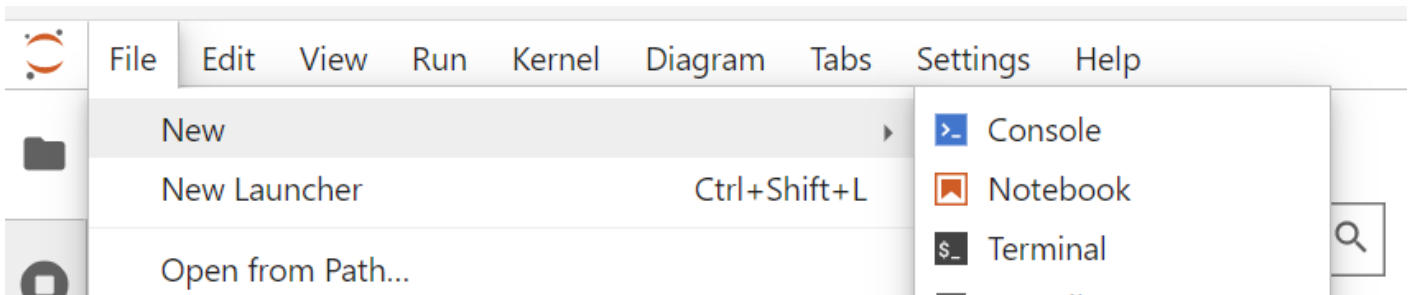
there are various sub git repositories for StableDiffusion, for example WebUi, ComfyUi, ... you will find them here

- [Installation: Stable Diffusion Web UI by Automatic1111 \(+ Deforum Extension\)](#)
- [Installation: Deforum Stable Diffusion](#)

Installation: Stable Diffusion Web UI by Automatic1111 (+ Deforum Extension)

WebUI: Installation

1. Open a terminal



2. Run the following commands in terminal in this order:

Download the stable-diffusion-webui repository

```
git clone https://github.com/AUTOMATIC1111/stable-diffusion-webui.git
```

Change directory and navigate to the Stable Diffusion folder

```
cd stable-diffusion-webui/models/Stable-diffusion
```

3. Download a Stable Diffusion Model from [KISD Model Zoo](#)

Downloading ONE version is enough to get you started.

Stable Diffusion v-2-1 512x512 (base)

```
wget --no-check-certificate --content-disposition https://th-koeln.sciebo.de/s/Kpgz0TuejYcjY4t/download -O v2-1_512-ema-pruned.ckpt
```

```
wget --no-check-certificate --content-disposition https://th-koeln.sciebo.de/s/m3PhfQtImYOIEUI/download -O v2-1_768-ema-pruned.ckpt
```

4. Change access rights of file *webui.sh*

Return back to home directory

```
cd
```

Change directory and navigate to the stable-diffusion-webui folder

```
cd stable-diffusion-webui
```

Run this command to assign execution rights

```
chmod +x webui.sh
```

Optional: Install Deforum Extension

5. Run *webui.sh*

```
./webui.sh --share
```

6. In the terminal code, search for the `public URL` (Running on public URL: `https:// xxxxxxxx-xxxx-xxxx-.gradio.live`) and copy it to your browser

7. If you receive the following error message after trying to generate your first image, in the WebUI go to Settings > Stable Diffusion > & check the box for "Upcast cross attention layer to float" > Apply settings & Reload UI

NansException: A tensor with all NaNs was produced in Unet. This could be either because there's not enough precision to represent the picture, or because your video card does not support half type. Try setting the "Upcast cross attention layer to float32" option in Settings > Stable Diffusion or using the `--no-half` commandline argument to fix this. Use `--disable-nan-check` commandline argument to disable this check.

Training

Stable Diffusion

Noise multiplier for img2img

Compatibility

Interrogate

Options

Extra Networks

User interface

Live previews

Sampler parameters

Postprocessing

Actions

Licenses

Show all pages

☐ Apply color correction to img2img results to match original colors.

☐ With img2img, do exactly the amount of steps the slider specifies (normally you'd do less with less denoising).

With img2img, fill image's transparent parts with this color.

☐ Enable quantization in K samplers for sharper and cleaner results. This may change existing seeds. Requires restart to apply.

☒ Emphasis: use (text) to make model pay more attention to text and [text] to make it pay less attention

☒ Make K-diffusion samplers produce same images in a batch as when making a single image

Increase coherency by padding from the last comma within n tokens when using more than 75 tokens

Clip skip

☒ Upcast cross attention layer to float32

8. At end of use: Within the interface, go to File > Hub Control Panel > Stop My Server

Deform Extention (Animation for SD): Installation

1. Open a terminal & navigate to the stable-diffusion-webui folder

```
cd stable-diffusion-webui
```

2. Download the Deform repository

```
git clone https://github.com/deform-art/deform-for-automatic1111-webui/ extensions/deform
```

Tutorial recommendation: [Deform Settings Explained - Part 1 Stable Diffusion Automatic 1111](#)

Tutorial recommendation: [Deform for AUTOMATIC1111 - Stable Diffusion Tutorial - AI Animation Part 2](#)

After Installation: Running Stable Diffusion WebUI

1. Open a terminal & navigate to the stable-diffusion-webui folder

```
cd stable-diffusion-webui
```

2. Run *webui.sh*

```
./webui.sh --share
```

3. In the terminal code, search for the `public URL` (Running on public URL: `https:// xxxxxxxx-xxxx-xxxx-.gradio.live`) and copy it to your browser

4. At end of use: Within the interface, go to File > Hub Control Panel > Stop My Server

Tutorial recommendation: [Stable diffusion tutorial. ULTIMATE guide - everything you need to know!](#)

Please Note: The original version of this book was created by Laura Wagner. This is merely an update of her work!

Installation: Deform Stable Diffusion

Installation

Installing DSD locally on a Linux Device

1. clone this repository:

```
git clone https://github.com/HelixNGC7293/DeformStableDiffusionLocal.git
```

Creating the environment

2. in case the environment should be available permanently (yes)

```
conda config --add envs_dirs /home/jovyan/.conda_envs
```

3. create environment with conda

```
conda create --name dsd python=3.8.5 -y
```

4. initialize bash shell

```
conda init bash
```

5. restart shell

```
source ~/.bashrc
```

6. activate environment:

```
conda activate dsd
```

Downloading models

cd into models folder

```
cd models
```

Download model files

```
wget --no-check-certificate --content-disposition https://th-koeln.sciebo.de/s/QJm0HoP5JqMYza/download -O sd-v1-4.ckpt
```

```
wget --no-check-certificate https://th-koeln.sciebo.de/s/e9GIUImXPvTtJRP/download -O dpt_large-midas-2f21e586.pt
```

```
cd ..
```

```
cd pretrained
```

download adaBins

```
wget --no-check-certificate --content-disposition https://th-koeln.sciebo.de/s/yYEhjskz9yuKotX/download -O AdaBins_nyu.pt
```

```
cd ..
```

Making the installations

```
cd DeformStableDiffusionLocal
```

```
python setup.py
```

Prompting the Model (Latest Stable Diffusion Weights)

These steps need to be executed in order to activate the environment we installed before

initialize bash shell

```
conda init bash
```

restart shell

```
source ~/.bashrc
```

then:

```
conda activate dsd
```

generate still images:

```
python run.py --settings "./examples/runSettings_StillImages.txt"
```

animation:

```
python run.py --enable_animation_mode --settings "./examples/runSettings_Animation.txt"
```

installation script

```
git clone https://github.com/HelixNGC7293/DeformStableDiffusionLocal.git
conda config --add envs_dirs /home/jovyan/.conda_envs
conda create --name dsd python=3.8.5 -y
cd DeformStableDiffusionLocal
cd models
wget #####insert adabins
wget --no-check-certificate --content-disposition https://th-koeln.sciebo.de/s/QJm0HoP5JqMYza/download -O sd-
v1-4.ckpt
wget --no-check-certificate https://th-koeln.sciebo.de/s/e9GIUImXPvTtJRP/download -O dpt_large-midas-
2f21e586.pt
cd ..
conda init bash
source ~/.bashrc
conda activate dsd
```



```
python setup.py
```

Downloading entire folders

if you want to download an entire folder you need to zip it first:

```
zip -r example.zip original_folder
```

Upscaling

[For upscaling please refer to the ESRGAN Book](#)

[**https://github.com/xinntao/Real-ESRGAN**](https://github.com/xinntao/Real-ESRGAN)

-i INPUTPATH

-o OUTPUTPATH

-n MODEL