

# 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
```

# 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>

-i INPUTPATH

-o OUTPUTPATH

-n MODEL

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