

# Stable Diffusion Native Isekai

## Description

Did you try the docker guide, but ran out of space in your root partition? Well this guide will install amd's compute stack natively instead of inside a docker.

## Installing stable diffusion

Change directory to wherever you want a stable diffusion folder to appear (such as your source code directory), and check out the Stable Diffusion Webui repo.

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

Time to do some file management. Open dolphin here.

```
dolphin .
```

Download [sd-v1-4.ckpt](#) and copy it into the stable-diffusion-webui folder. Rename it to `model.ckpt`.

Download [GFPGANv1.3.pth](#) and copy it into the stable-diffusion-webui folder.

Download [remacri](#) and/or [Lollypop](#) ESRGAN models and place them into stable-diffusion-webui's ESRGAN subfolder.

When you are done, close dolphin.

At this stage you could launch `./webui.sh`, but it will fail to run because it expects the wrong version of pytorch. So we have to install the things installed by launch.py by hand.

Install python modules

```
pip3 install torch torchvision torchaudio --extra-index-url https://download.pytorch.org/whl/rocm5.1.1
pip3 install transformers==4.19.2 diffusers invisible-watermark --prefer-binary
pip3 install git+https://github.com/crowsonkb/k-diffusion.git --prefer-binary
pip3 install git+https://github.com/TencentARC/GFPGAN.git --prefer-binary
pip3 install -r repositories/CodeFormer/requirements.txt --prefer-binary
pip3 install -r requirements.txt --prefer-binary
pip3 install -U numpy --prefer-binary
pip3 install scipy pyyaml
```

Install repositories

```
mkdir repositories
git clone https://github.com/CompVis/stable-diffusion.git repositories/stable-diffusion
git clone https://github.com/CompVis/taming-transformers.git repositories/taming-transformers
git clone https://github.com/sczhou/CodeFormer.git repositories/CodeFormer
git clone https://github.com/salesforce/BLIP.git repositories/BLIP
```

Run the webui

```
python stable-diffusion-webui/webui.py
```

Commandline arguments are described in [the main guide](#) and are added at the end of the previous command like this:

```
python stable-diffusion-webui/webui.py --medvram --opt-split-attention
```

Enjoy!

## Note

If you get the error message `hipErrorNoBinaryForGpu: Unable to find code object for all current devices!` you may need to add `HSA_OVERRIDE_GFX_VERSION=10.3.0` to your `/etc/environment` and reboot.