

# --VOLDEMORT'S GUI GUIDE FOR THE MENTALLY DEFICIENT--

So you want to take the dive into Stable Diffusion and the wide world of AI generated art, but you don't know where to start. This is a guide to set up what I believe to be the best UI based distribution currently available. It's frequently updated with features from various distributions and it's free of the Patreon begging, Discord integrating, and potential malware bull shit that plagues many mainstream distributions. Going forward, I'm going to refer to this version as Voldemort's, or Voldy's for short.

Stable Diffusion only works well with a modern NVidia graphics card. If you're running AMD or an old card, you're probably shit out of luck. There is a guide by another kind anon [which can be found here](#), but I'm not running an AMD card so I can't attest to it's functionality. You can [inspect the code for Voldy's here](#).

For information on how to use Voldy's, as well as Stable Diffusion in general, you can visit [my guide here](#). I've also set up a collection of resources which I've found valuable to crafting better prompt, [which can be found here](#). Textual inversion is the new hotness that allows you to add your own styles, people, places, and things to the Stable Diffusion model. To learn more about how to integrate it, as well as how to access the model database, [check out my guide here](#).

## 💡 Download and install the following before you begin the setup process.

At the end of the Python installation you will see a note asking if you'd like to add Python to your PC's PATH. You do.

- [Python](#)
- [Git](#)

## 📄 Primary Setup

**Step 1:** Download the model checkpoint (currently 1.4) from [huggingface](#). You have to accept the license by registering for huggingface, which can be done by clicking a button that says [Access repository](#) and creating an account. There are two weights, I'd personally recommend using [sd-v1-4-full-ema.ckpt](#). It's double the size so the download will take a bit, but it can lead to better results.

**Step 2:** Once the download is complete, rename the file to [model.ckpt](#).

**Step 3:** Download [GPFGAN](#), which fixes the borked faces Stable Diffusion produces most of the time. CodeFormer now comes standard with Voldy's, which does the same thing and produces better results for the most part, but this is still nice to experiment around with.

**Step 4:** Download ESRGAN models for upscaling final results.

- [Remacri](#) is good for landscapes and structures.
- [Lollypop](#) is better for upscaling anything that has anthropomorphic figures.
- If you want to try out different models, you can find them [here](#). Anything that ends with [.pth](#) can be loaded by Voldy's.

**Step 5:** In file explorer, create (or choose) a root directory (location on your PC where Voldy's will be stored) to download the files to. In my case, I cloned the files directly to my [C:\](#) drive, leading to a root directory location of: [C:\](#)

**Step 6:** Open command prompt in this directory. To do so, make sure file explorer is in your newly created and empty directory folder and click on the navigation bar (which should say something along the lines of [This PC > OS Disk \(C:\)](#)). Type [cmd](#) on this bar and hit enter. Command prompt should open in the proper directory folder.

**Step 7:** To confirm this, enter the following command, which should send back your directory location. In my case it sent: ``C:\``.

```
echo %cd
```

**Step 8:** Enter the following command, which will create a folder with the necessary files.

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

**Step 9:** In file explorer, navigate to the newly created [stable-diffusion-webui](#) directory (to confirm you're in the right place, look for a file called [webui.bat](#)). Move the [model.ckpt](#) and [GFPGANv1.3.pth](#) files you downloaded earlier into this directory.

**Step 10** In the same directory, right click on [webui-user.bat](#), click [edit](#) and replace its contents with the following, saving your changes.

```
@echo off

set PYTHON=
set GIT=
set VENV_DIR=
set COMMANDLINE_ARGS=--medvram --opt-split-attention --show-negative-prompt

git pull
start http://127.0.0.1:7860/

call webui.bat
```

**Step 11:** This may be fixed down the line, but currently running `git pull` overwrites the `webu-user.bat` file, so we're going to rename it. Right click on `webui-user.bat`, click `rename` and rename it to `webui-user-modified.bat`

**Step 11:** Navigate to `ESRGAN`. Move the `.pth` ESRGAN files you downloaded earlier, such as Remacri or Lollipop, into this folder.

**Step 12:** Navigate back to your root directory and double click `webui-user-modified.bat` to launch. It will download some files the first time, so be patient. Once Voldy's is fully launched, it should return a url of `http://127.0.0.1:7860/` within the command prompt window. The launcher should have already navigated you there, but if you want to relaunch, go to that URL to view the UI and begin to render. To exit Voldy's, close the command prompt window.

#### Tip to launch from your desktop.

Copy the launcher, then go to your desktop, right click, and click `paste shortcut`. You can now launch Voldy's from your desktop.

Once you launch Voldy's, I would recommend setting your output folders (unless you'd prefer they output within your root directory). I was going to go hands off for this portion, but I'm feeling benevolent so I created a `.bat` to make this easier.

#### Setting your output files.

**Step 1:** Download this file and move it to wherever you want your files to output to. Run it, and it will create the appropriate sub-folders. You can delete the `.bat` after this is complete.

**Step 2:** Go to the `Settings` tab of the UI and assign your new file locations accordingly. Once you've assigned the locations, make sure to hit `Submit` at the bottom.

- [Hand holding directory assignment .bat for friends](#)

I'd also recommend enabling the following option, which will create subfolders for each new prompt you try. There are other options available that I go through in my [guide on how to use Voldy's](#).

- When writing images/grids, create a directory with name derived from the prompt

If it's not automatically selected, you should also select CodeFormer as your face restoration model. I personally set my weight to 0.5. As with the above, and anytime you make setting on the `Settings` tab, make sure you hit `Submit` at the bottom.

#### Alternate models

Two teams recently released models that were trained on anime images. If this interests you, you can download the [waifu-diffusion model here](#), and the [trinart model here](#). I haven't tested either yet, but I've seen some interesting results, so let me know your experience. To easily switch between either of these and the main model, follow the steps below.

**Step 1:** In file explorer, your root directory at `stable-diffusion-webui`. This is the directory containing `webui-user.bat`.

**Step 2:** Move the `wd-v1-2-full-emma.ckpt` or `trinart2_step60000.ckpt` you downloaded into this folder, without renaming.

**Step 4:** Copy `webui-user.bat` and rename the copy to `webui-user-waifu` or `webui-user-trinart` respectively.

**Step 5:** Right click on the copy to edit within notepad and replace its contents with the following, saving your changes.

For `webui-user-waifu.bat`

```
@echo off
```

```
set PYTHON=  
set GIT=  
set VENV_DIR=  
set COMMANDLINE_ARGS=--ckpt wd-v1-2-full-emma.ckpt --medvram --opt-split-attention --show-negative-prompt
```

```
git pull  
start http://127.0.0.1:7860/
```

```
call webui.bat
```

For `webui-user-trinart.bat`

```
@echo off
```

```
set PYTHON=  
set GIT=  
set VENV_DIR=  
set COMMANDLINE_ARGS=--ckpt trinart2_step60000.ckpt --medvram --opt-split-attention --show-negative-prompt
```

```
git pull  
start http://127.0.0.1:7860/
```

```
call webui.bat
```

#### Tip to launch from your desktop.

Copy the launcher, then go to your desktop, right click, and click `paste shortcut`. You can now launch Voldy's from your desktop.