

# windows\_AMD显卡ai

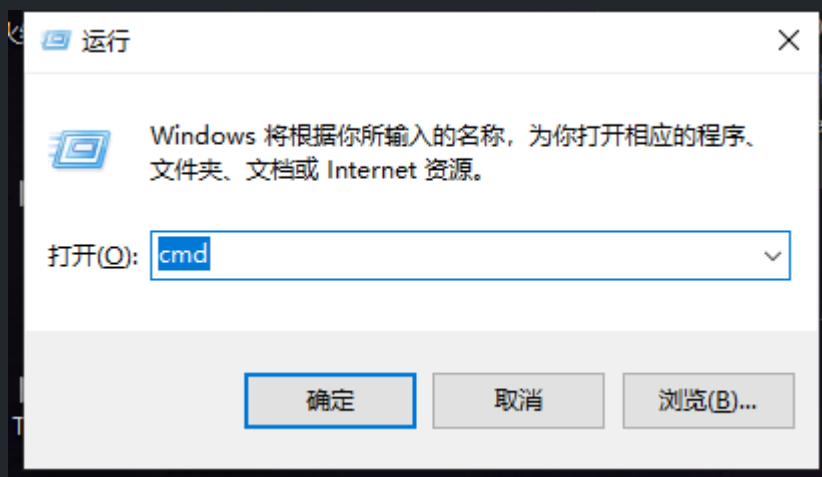
“(≥▽≤)o”(≥▽≤)o”(≥▽≤)o”(≥▽≤)o”(≥▽≤\*)o

由于光追性能和CUDA的差距，相近光栅性能的A卡和N卡在游戏性能差不多的情况下，价格有一两千的差距。对于游戏玩家而言，性价比更高的A卡是更好的选择。但是，如果想用A卡来玩一些生产力相关AI方面的东西，那该怎么办呢？

这篇文章也许会对你有所帮助。

需要：miniconda（虚拟环境）python AMD 显卡 7000系及以上

1. 找一个大点的地方，创建一个文件夹（最好路径上没有中文）
2. win+r cmd 或者在微软商店下载 powershell（win11好像自带，win+q 搜一下看看？）



3. cmd 进入 你创建的文件夹

```
1 conda create --name comfy python=3.12
```

创建一个名字是 comfyui-amd 的虚拟环境（名字随意）（注意后面的Python版本，选择你需要的）

可能会有报错，有可能是conda没有在环境变量里，添加后就行。（powershell 可能会有个人系统配置的要求，报错的代码问ai最方便）

```
1 conda env list # 展示你创建的虚拟环境（复制的时候把注释去掉）
```

```
1 conda activate comfy #进入虚拟环境
```

```
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。

尝试新的跨平台 PowerShell https://aka.ms/pscore6

加载个人及系统配置文件用了 2407 毫秒。
(base) PS D:\comfyui-i> conda activate comfy
(comfy) PS D:\comfyui-i> conda env list

# conda environments:
#
# * -> active
# + -> frozen
base                  E:\miniconda3
comfy                  * E:\miniconda3\envs\comfy

(comfy) PS D:\comfyui-i> |
```

使用powershell也行，更现代集成更多unix终端指令，类似这个：

```
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。

尝试新的跨平台 PowerShell https://aka.ms/pscore6

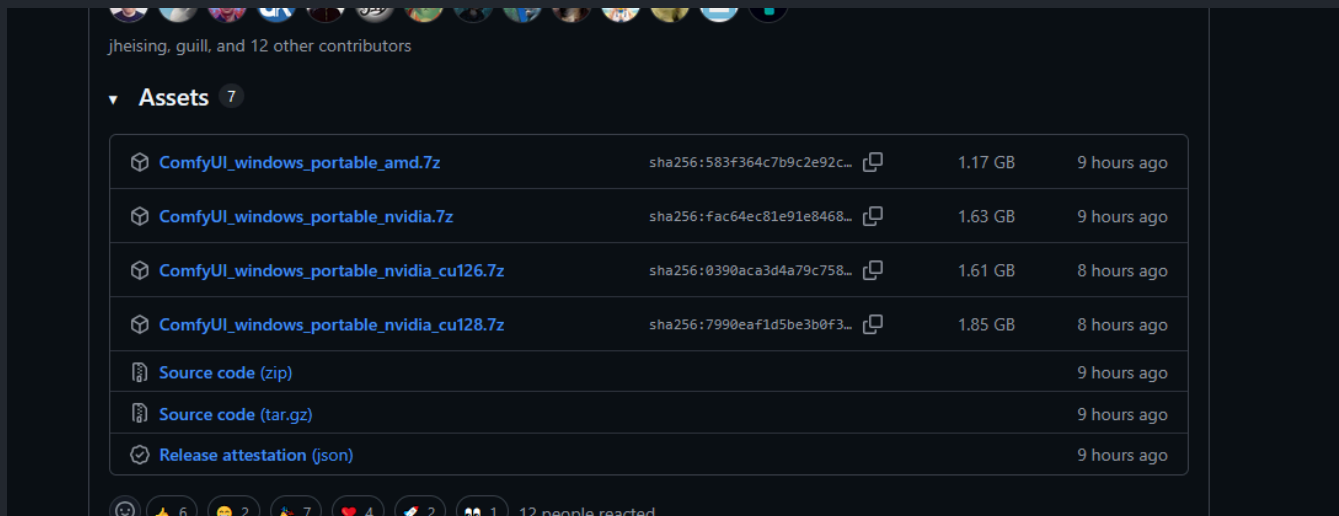
加载个人及系统配置文件用了 2284 毫秒。
(base) PS D:\comfyui-i> ls

    目录: D:\comfyui-i

Mode                LastWriteTime         Length Name
----                -
d-----          2025/12/10   7:31             ComfyUI_windows_portable
-a-----          2025/12/10  13:15    1253033070 ComfyUI_windows_portable_amd.7z

(base) PS D:\comfyui-i> |
```

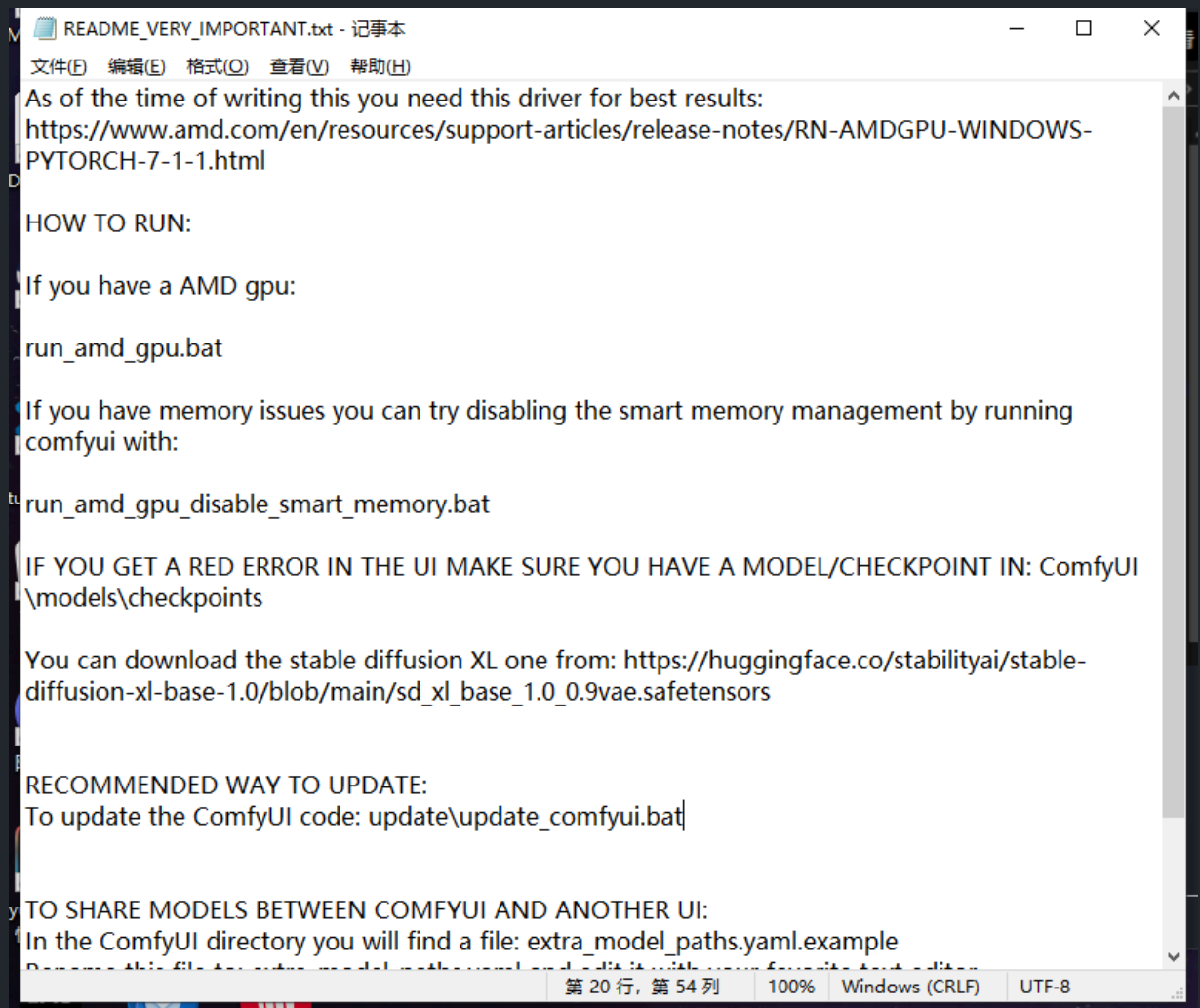
4. 浏览器输入<https://github.com/comfyanonymous/ComfyUI>（comfyui的github库），右边releases里选择amd的包。



5. 下载下来的包解压在你创建的文件夹里。



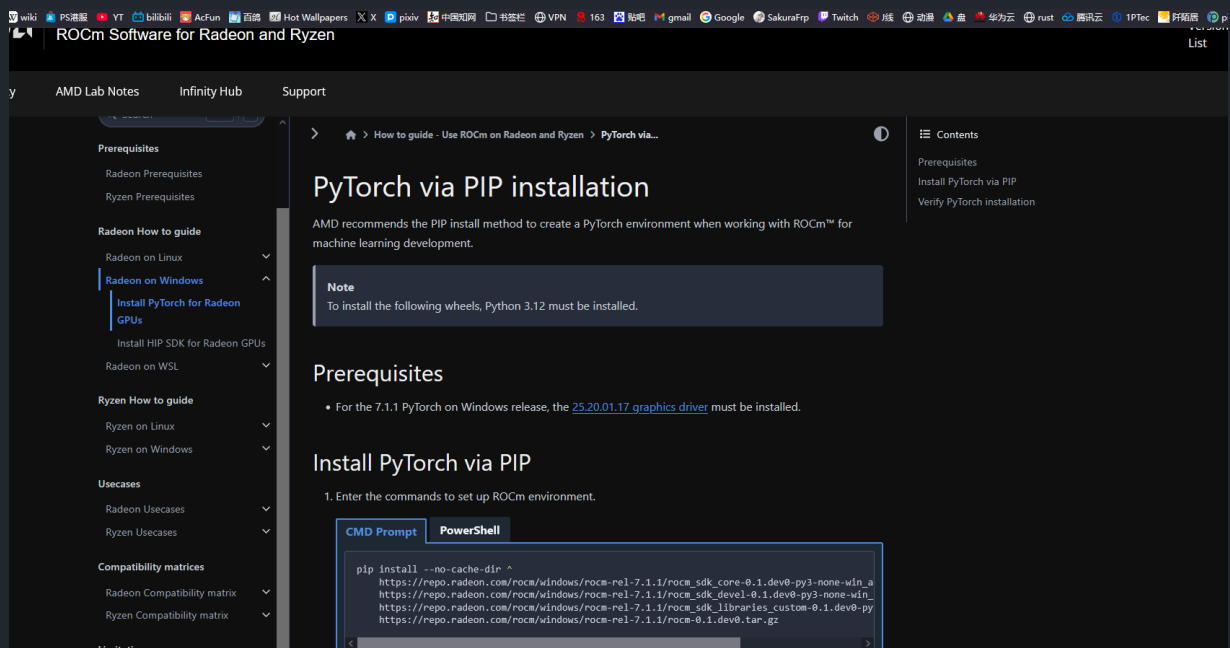
6. 下载下来的文件里有个README\_VERY\_IMPORTANT.txt的文件，是作者的教程。



7. 需要安装amd的驱动<https://www.amd.com/en/resources/support-articles/release-notes/RN-AMDGPU-WINDOWS-PYTORCH-7-1-1.html>

在这个页面点击这个连接

<https://rocm.docs.amd.com/projects/radeon-ryzen/en/latest/docs/install/installrad/windows/install-pytorch.html>



是amd 官方的rocm blog

8. 在cmd 或者powershell 你打开的文件夹里使用命令：

```
1 cd .\ComfyUI_windows_portable\  
2 cd .\ComfyUI\ # 进入文件夹
```

9. 按照amd 的官方教程

- For the 7.1.1 PyTorch on Windows release, the [25.20.01.17 graphics driver](#) must be installed.

## Install PyTorch via PIP

1. Enter the commands to set up ROCm environment.

CMD Prompt

PowerShell

```
pip install --no-cache-dir ^  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/rocm_sdk_core-0.1.dev0-py3-none-win_a  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/rocm_sdk_devel-0.1.dev0-py3-none-win_  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/rocm_sdk_libraries_custom-0.1.dev0-py  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/rocm-0.1.dev0.tar.gz
```

2. Enter the commands to install torch, torchvision and torchaudio for ROCm AMD GPU support.

### Note

This may take several minutes. See [Compatibility matrices](#) for support information.

CMD Prompt

PowerShell

```
pip install --no-cache-dir ^  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/torch-2.9.0+rocmsdk20251116-cp312-cp3  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/torchaudio-2.9.0+rocmsdk20251116-cp31  
https://repo.radeon.com/rocm/windows/rocm-rel-7.1.1/torchvision-0.24.0+rocmsdk20251116-cp
```

输入相应的命令，并验证安装的pytorch

# Verify PyTorch installation

Confirm if PyTorch is correctly installed.

1. Verify if Pytorch is installed and detecting the GPU compute device.

```
python -c "import torch" 2>nul && echo Success || echo Failure
```

**Expected result:**

```
Success
```

2. Enter command to test if the GPU is available.

```
python -c "import torch; print(torch.cuda.is_available())"
```

**Expected result:**

## 11. 有一个细节需要注意!

3. Enter command to display installed GPU device name.

```
python -c "import torch; print(f'device name [0]:', torch.cuda.get_device_name(0))"
```


**Example result:** device name [0]: Radeon RX 7900 XTX

```
device name [0]: <Supported AMD GPU>
```



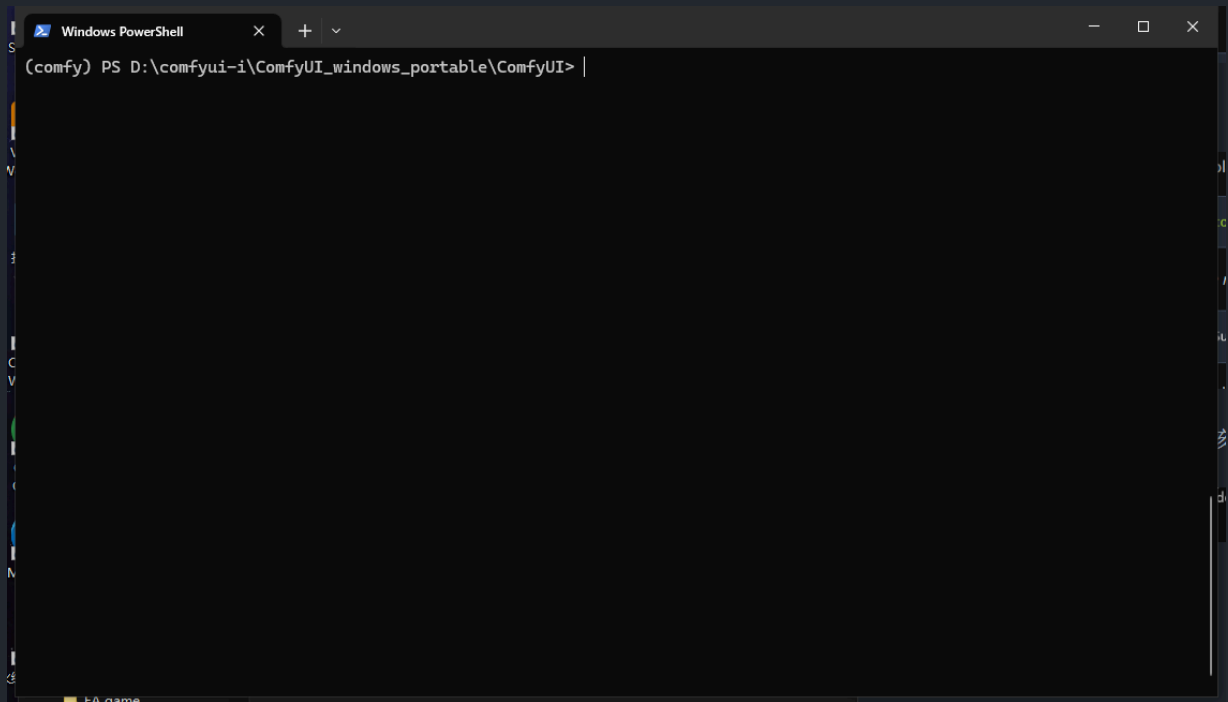
这里显示的显卡可能是你的核显，修改数字后才是你的独立显卡，例如：

```
(comfy) PS D:\comfyui-i\ComfyUI_windows_portable\ComfyUI> python -c "import torch; print(f'device name [1]:', torch.cuda.get_device_name(1))"
device name [1]: AMD Radeon RX 9070
```



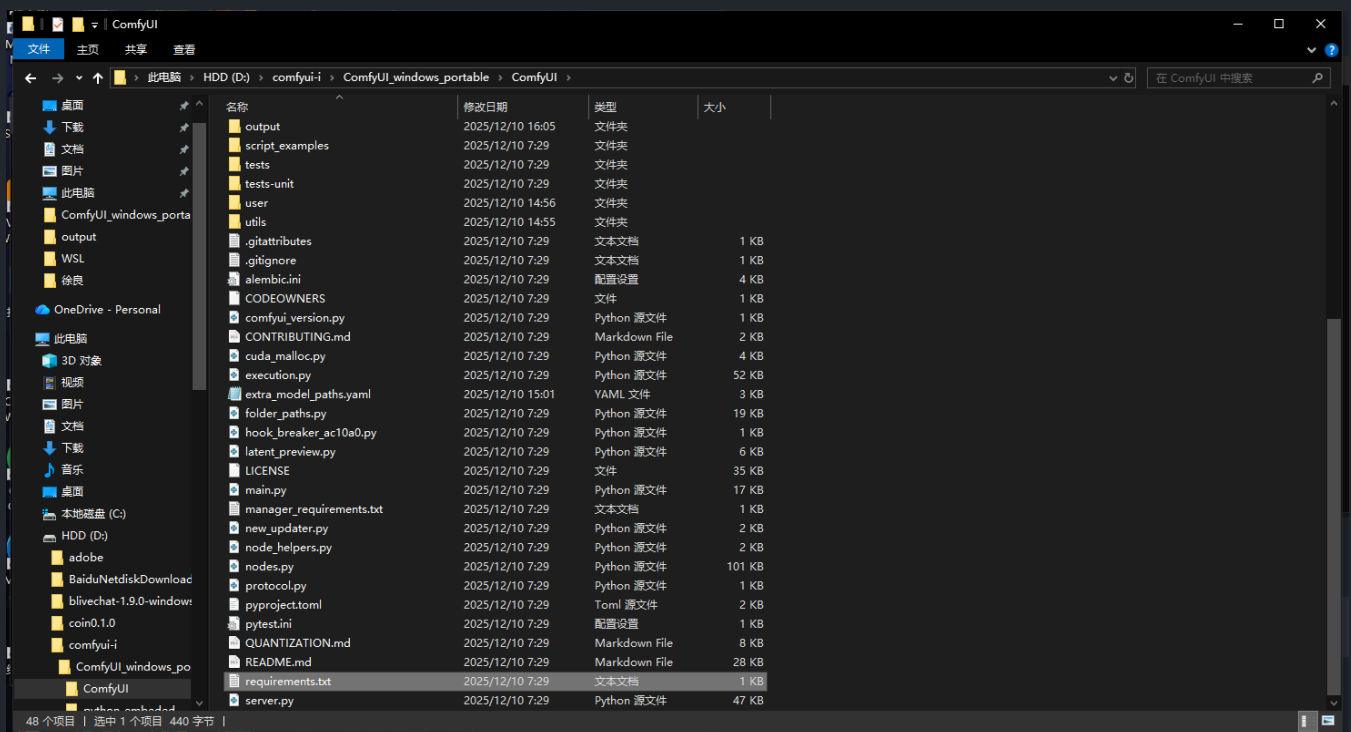
我的是device[1]

12. 下载并验证成功后，在



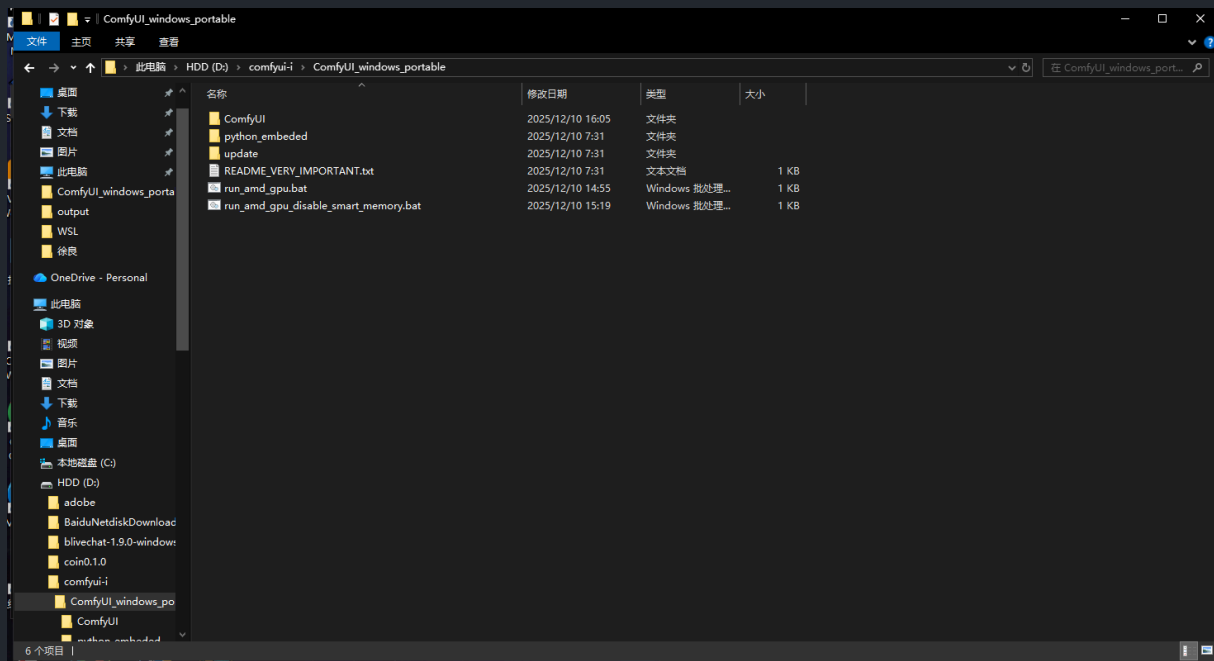
这个路径，输入

```
1 pip install -r requirements.txt
```



就是下载文件夹里的这个文件里所需的依赖。

13. 全部完成之后，



在这个文件夹里有一个run\_amd\_gpu.bat文件，也可以使用run\_amd\_gpu\_disable\_smart\_memory.bat这个。

后面这个在作者的提示里：If you have memory issues you can try disabling the smart memory management by running comfyui with:

run\_amd\_gpu\_disable\_smart\_memory.bat

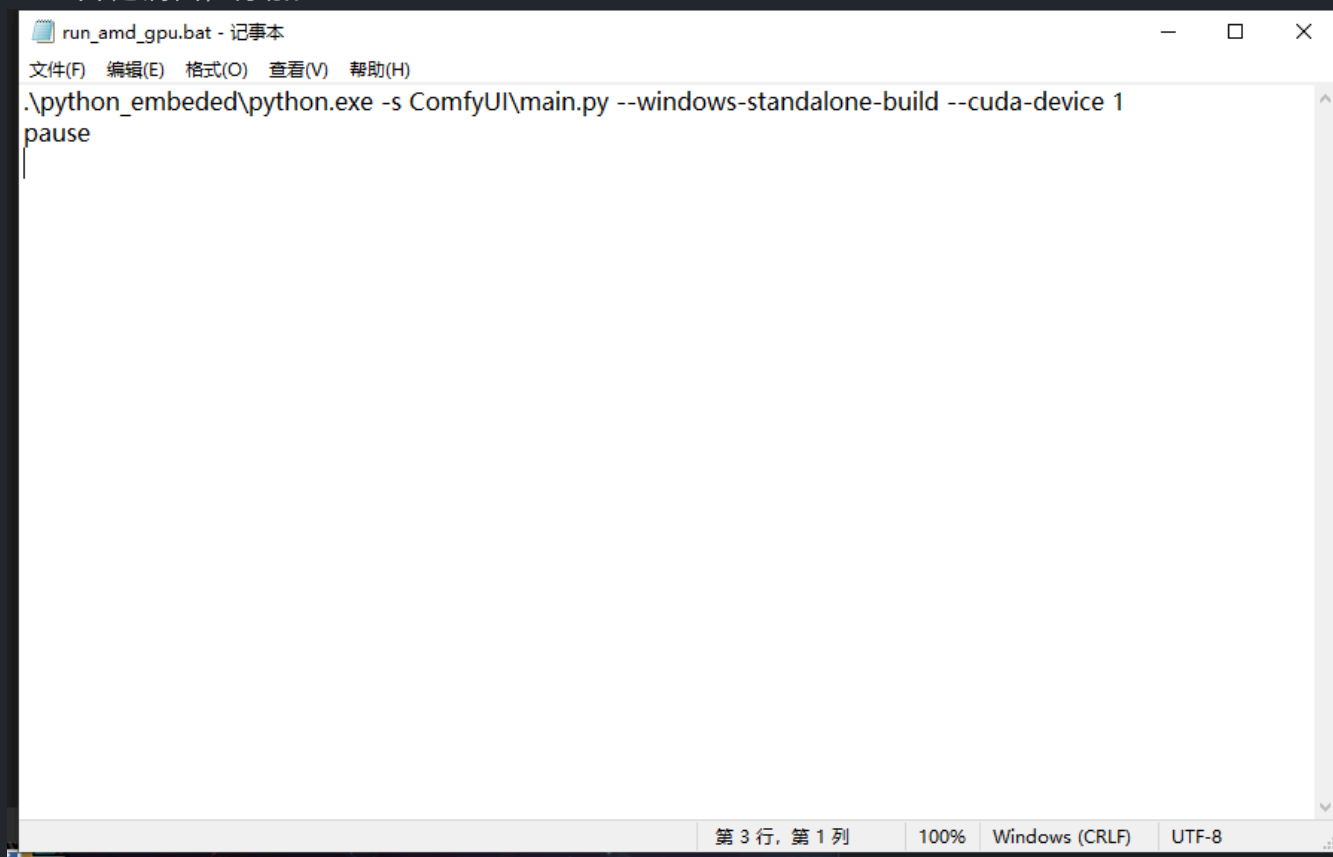
翻译之后就是：如果您遇到内存问题，您可以尝试通过运行 comfyui 来禁用智能内存管理：

run\_amd\_gpu\_disable\_smart\_memory.bat

按你的需要选择（或者其中一个错误之后换一个）



右键编辑，添加



```
run_amd_gpu.bat - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
.\python_embeded\python.exe -s ComfyUI\main.py --windows-standalone-build --cuda-device 1
pause
第 3 行, 第 1 列 100% Windows (CRLF) UTF-8
```

1 `--cuda-device 1` #因为我的独显的编号是1,你选你自己的,用哪个启动就改哪个

14.

```
Windows PowerShell
(comfy) PS D:\comfyui-i\ComfyUI_windows_portable\ComfyUI> cd ..
(comfy) PS D:\comfyui-i\ComfyUI_windows_portable> |
```

```
1 cd ..
```

退回到上一级目录

```
1 .\run_amd_gpu_disable_smart_memory.bat
```

```
Windows PowerShell
(comfy) PS D:\comfyui-i\ComfyUI_windows_portable> .\run_amd_gpu_disable_smart_memory.bat
```

```
Windows PowerShell
d----- 2025/12/10 7:29 tests-unit
(comfy) PS D:\comfyui-i\ComfyUI_windows_portable> .\run_amd_gpu_disable_smart_memory.bat

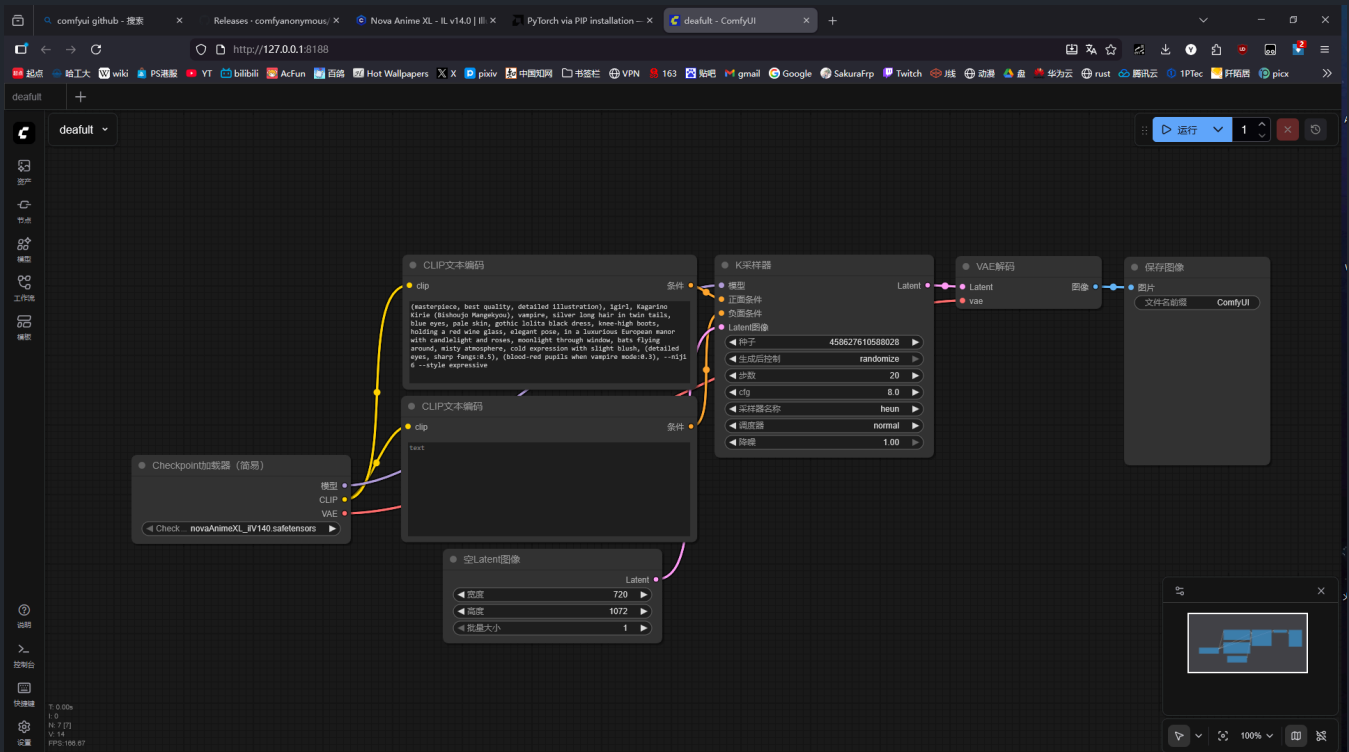
D:\comfyui-i\ComfyUI_windows_portable>.\python_embeded\python.exe -s ComfyUI\main.py --windows-standalone-build --disable
-smart-memory --cuda-device 1
Adding extra search path checkpoints D:\BaiduNetdiskDownload\models
Set cuda device to: 1
Failed to get device count
Checkpoint files will always be loaded safely.
Total VRAM 16304 MB, total RAM 64618 MB
pytorch version: 2.9.0+rocmstdk20251116
Set: torch.backends.cudnn.enabled = False for better AMD performance.
AMD arch: gfx1201
ROCm version: (7, 1)
Set vram state to: NORMAL_VRAM
Disabling smart memory management
Device: cuda:0 AMD Radeon RX 9070 : native
Enabled pinned memory 29078.0
Using sub quadratic optimization for attention, if you have memory or speed issues try using: --use-split-cross-attention
Python version: 3.12.10 (tags/v3.12.10:0cc8128, Apr 8 2025, 12:21:36) [MSC v.1943 64 bit (AMD64)]
ComfyUI version: 0.4.0
ComfyUI frontend version: 1.33.13
[Prompt Server] web root: D:\comfyui-i\ComfyUI_windows_portable\python_embeded\Lib\site-packages\comfyui_frontend_package
\static
Total VRAM 16304 MB, total RAM 64618 MB
pytorch version: 2.9.0+rocmstdk20251116
Set: torch.backends.cudnn.enabled = False for better AMD performance.
AMD arch: gfx1201
ROCm version: (7, 1)
Set vram state to: NORMAL_VRAM
Disabling smart memory management
Device: cuda:0 AMD Radeon RX 9070 : native
Enabled pinned memory 29078.0

Import times for custom nodes:
0.0 seconds: D:\comfyui-i\ComfyUI_windows_portable\ComfyUI\custom_nodes\websocket_image_save.py

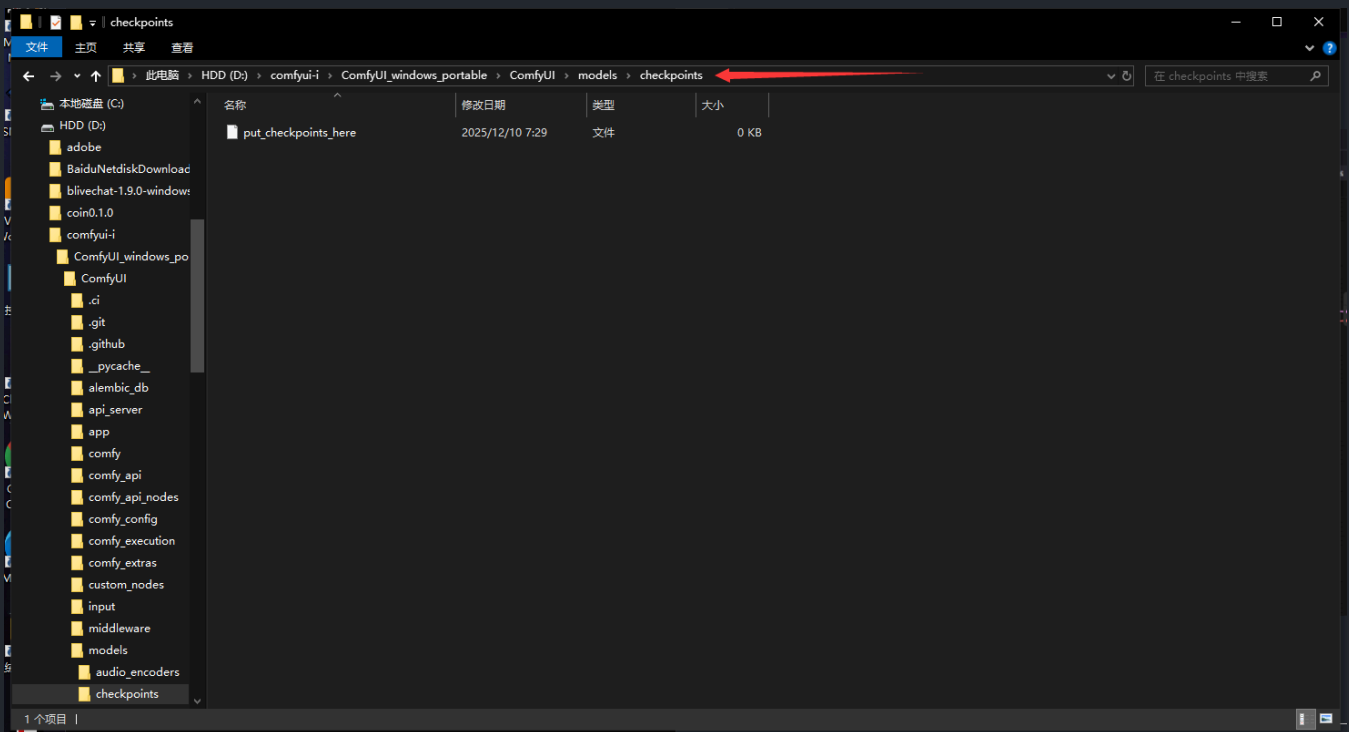
Context impl SQLiteImpl.
Will assume non-transactional DDL.
No target revision found.
Starting server

To see the GUI go to: http://127.0.0.1:8188
```

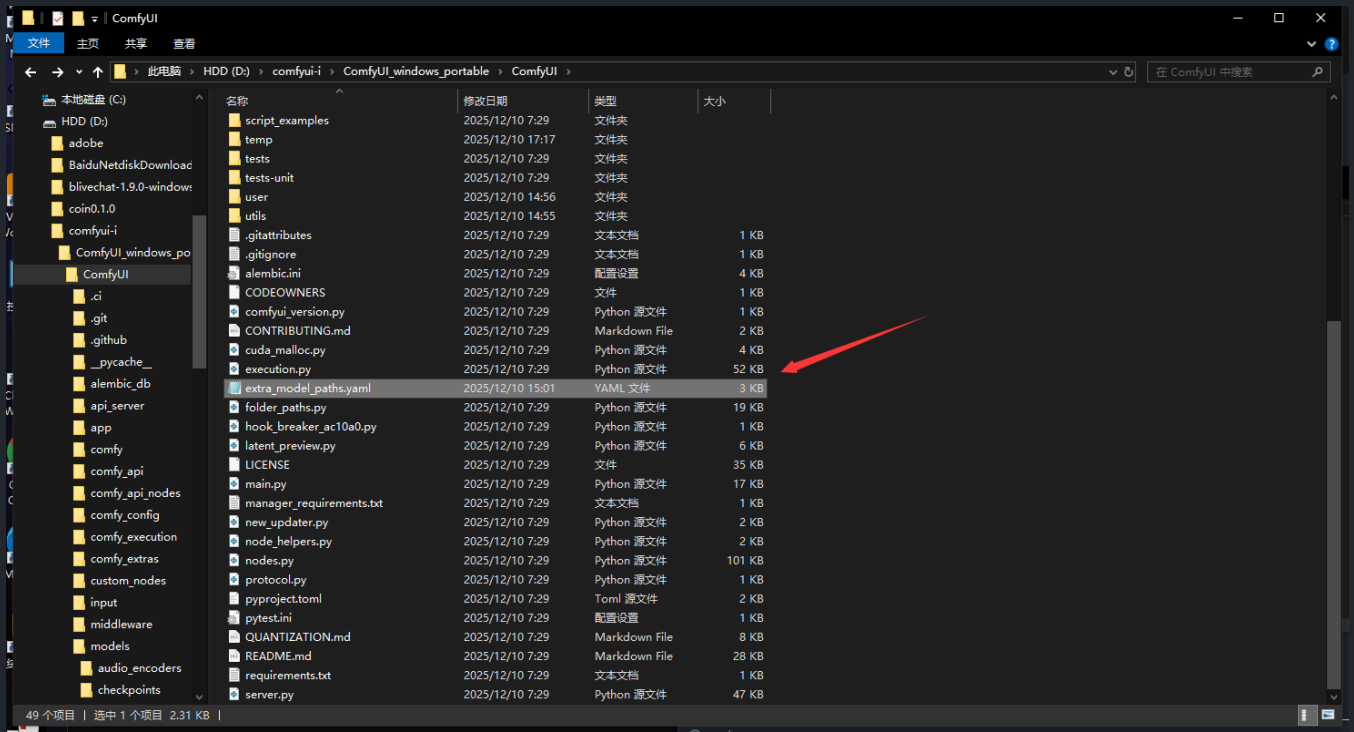
会自动跳出来个web页面（有问题的把上面的命令行复制给ai纠错）



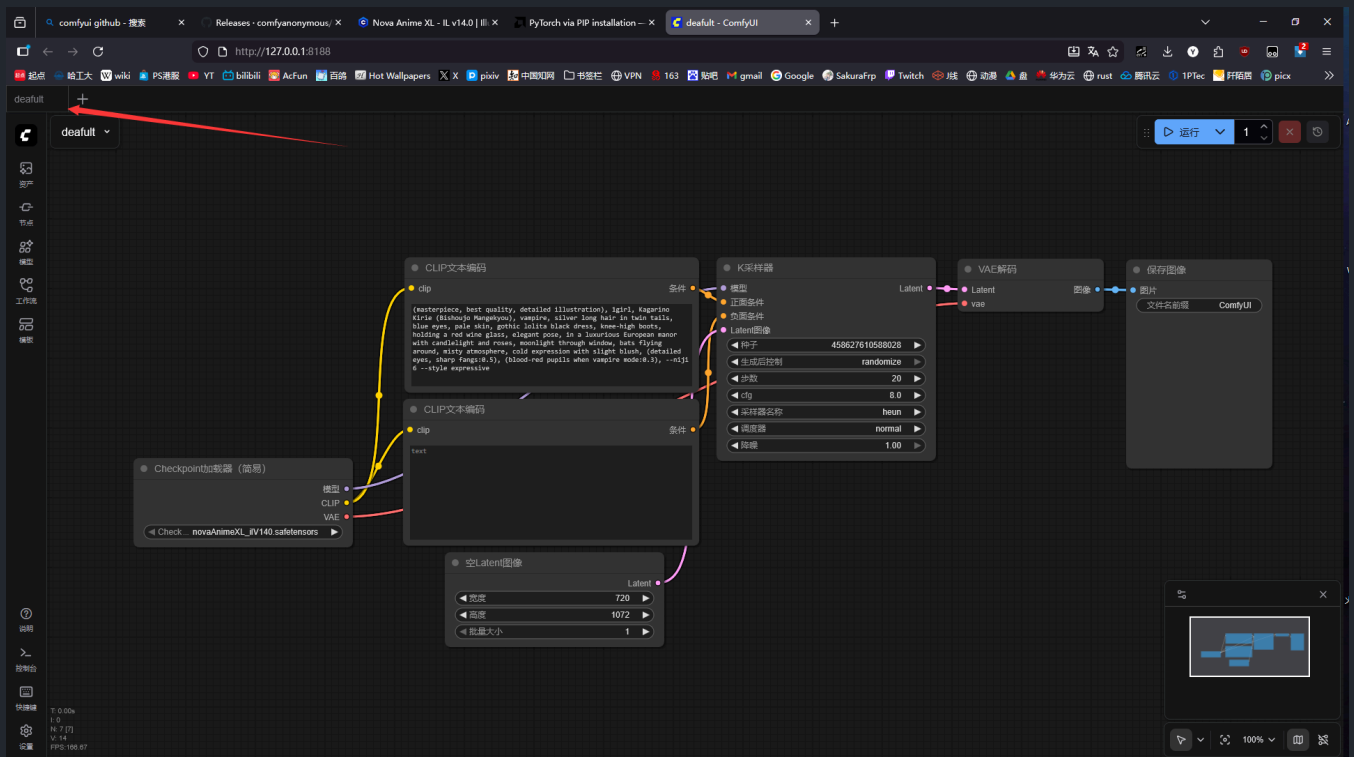
## 15. 关掉页面



在这个路径下把你的模型放进去（或者使用作者提供的修改文件的方法，映射你的模型路径）



16.

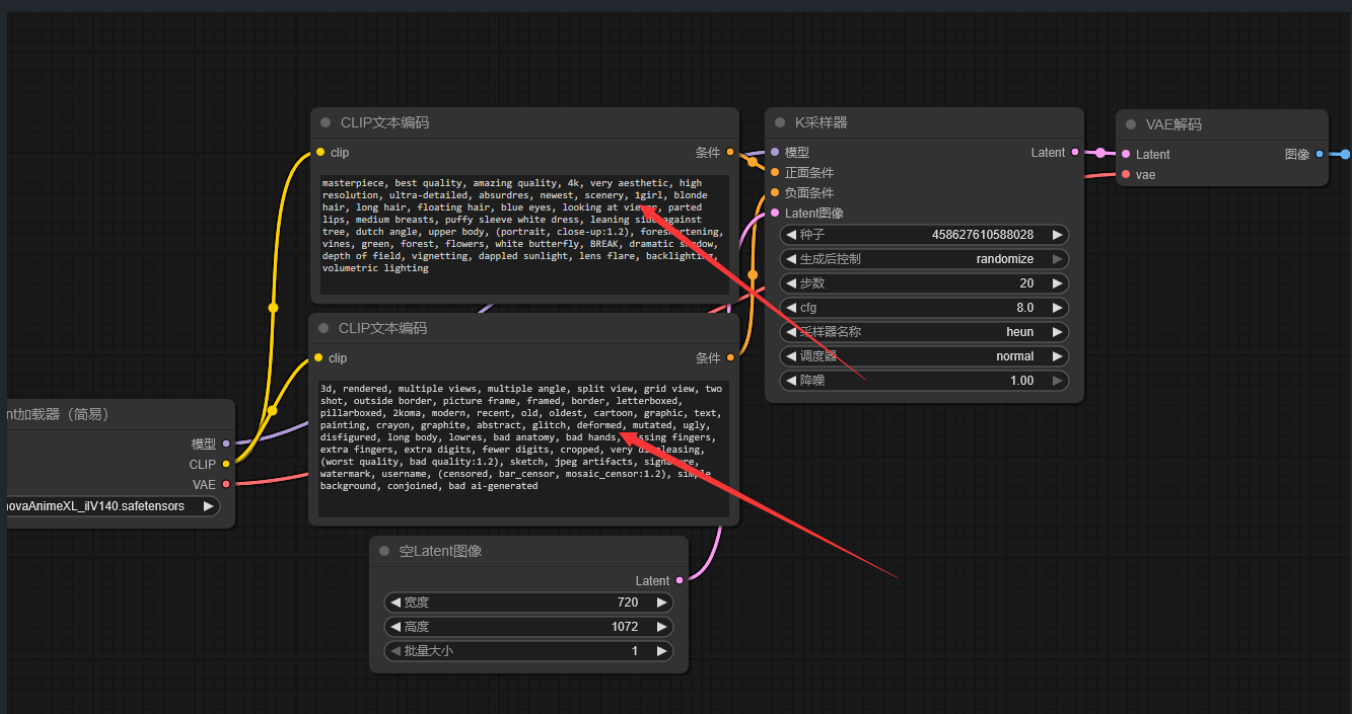


关掉所有的工作流，会出来一个默认的。

在这里选择模型，



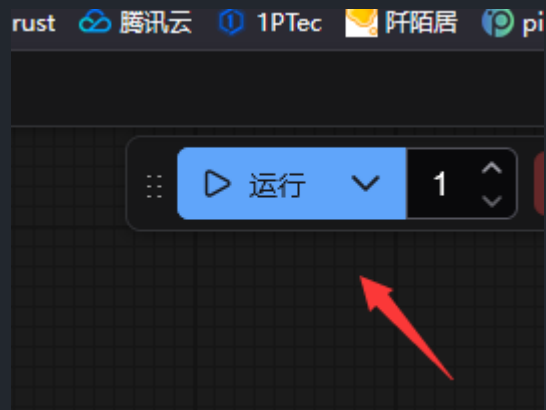
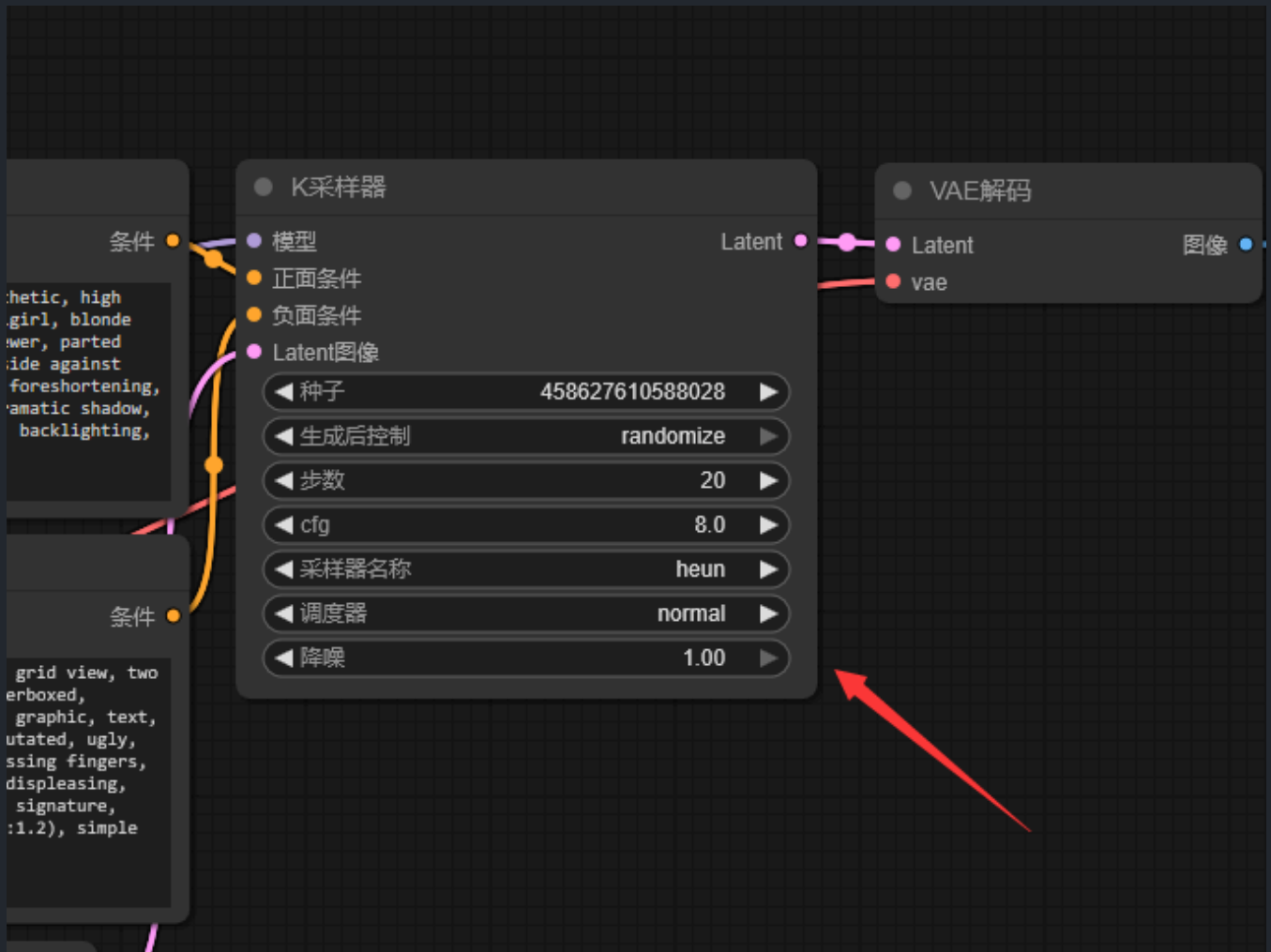
在这两个地方修改提示词



这里修改图片的像素



这里修改生成步数等



出图





powershell 显示

```
Windows PowerShell

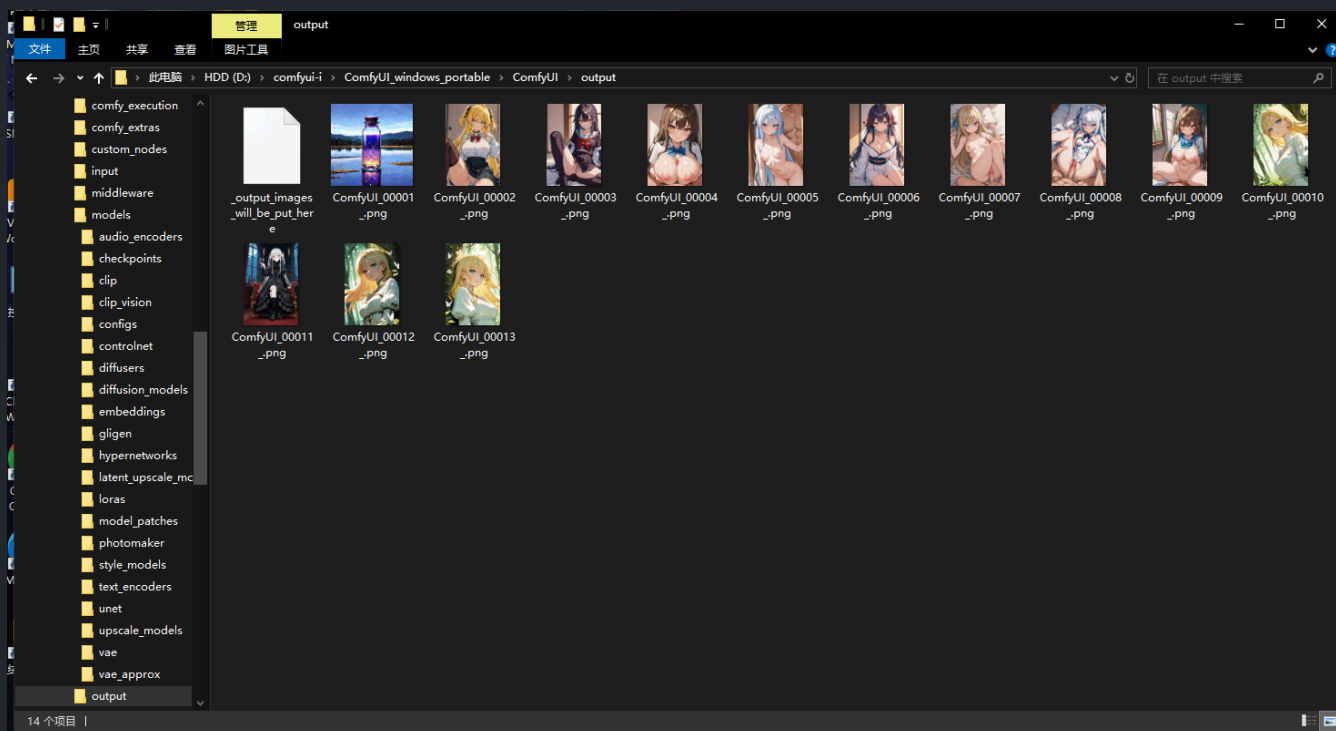
[Prompt Server] web root: D:\comfyui-i\ComfyUI_windows_portable\python_embeded\Lib\site-packages\comfyui_frontend_package\static
Total VRAM 16304 MB, total RAM 64618 MB
pytorch version: 2.9.0+rocm5.6.20251116
Set: torch.backends.cudnn.enabled = False for better AMD performance.
AMD arch: gfx1201
ROCm version: (7, 1)
Set vram state to: NORMAL_VRAM
Disabling smart memory management
Device: cuda:0 AMD Radeon RX 9070 : native
Enabled pinned memory 29078.0

Import times for custom nodes:
0.0 seconds: D:\comfyui-i\ComfyUI_windows_portable\ComfyUI\custom_nodes\websocket_image_save.py

Context impl SQLiteImpl.
Will assume non-transactional DDL.
No target revision found.
Starting server

To see the GUI go to: http://127.0.0.1:8188
got prompt
model weight dtype torch.float16, manual cast: None
model_type EPS
Using split attention in VAE
Using split attention in VAE
VAE load device: cuda:0, offload device: cpu, dtype: torch.bfloat16
CLIP/text encoder model load device: cuda:0, offload device: cpu, current: cpu, dtype: torch.float16
Requested to load SDXLClipModel
loaded completely; 14633.80 MB usable, 1560.80 MB loaded, full load: True
Requested to load SDXL
loaded completely; 13877.42 MB usable, 4897.05 MB loaded, full load: True
100% | 20/20 [00:10<00:00, 1.87it/s]
Requested to load AutoencoderKL
loaded completely; 6345.27 MB usable, 159.56 MB loaded, full load: True
Prompt executed in 17.32 seconds
```

出来的文件在这个路径



17. 我是用的模型: <https://civitai.com/models/376130/nova-anime-xl> (科学上网)

18. ctrl + C 退出

```
Windows PowerShell
Total VRAM 16304 MB, total RAM 64618 MB
pytorch version: 2.9.0+rocm5.6.20251116
Set: torch.backends.cudnn.enabled = False for better AMD performance.
AMD arch: gfx1201
ROCm version: (7, 1)
Set vram state to: NORMAL_VRAM
Disabling smart memory management
Device: cuda:0 AMD Radeon RX 9070 : native
Enabled pinned memory 29078.0

Import times for custom nodes:
0.0 seconds: D:\comfyui-i\ComfyUI_windows_portable\ComfyUI\custom_nodes\websocket_image_save.py

Context impl SQLiteImpl.
Will assume non-transactional DDL.
No target revision found.
Starting server

To see the GUI go to: http://127.0.0.1:8188
got prompt
model weight dtype torch.float16, manual cast: None
model_type EPS
Using split attention in VAE
Using split attention in VAE
VAE load device: cuda:0, offload device: cpu, dtype: torch.bfloat16
CLIP/text encoder model load device: cuda:0, offload device: cpu, current: cpu, dtype: torch.float16
Requested to load SDXLClipModel
loaded completely; 14633.80 MB usable, 1560.80 MB loaded, full load: True
Requested to load SDXL
loaded completely; 13877.42 MB usable, 4897.05 MB loaded, full load: True
100%| 20/20 [00:10<00:00, 1.87it/s]
Requested to load AutoencoderKL
loaded completely; 6345.27 MB usable, 159.56 MB loaded, full load: True
Prompt executed in 17.32 seconds

Stopped server
终止批处理操作吗(Y/N)? |
```

再输入Y +回车