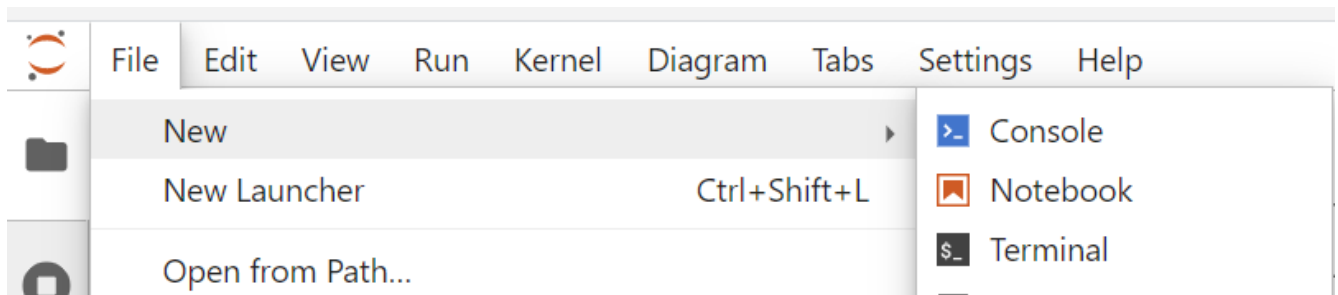# Comfy UI

Introduction to Comfy UI

- [Installation: ComfyUI on KITeGG Server](#)
- [Desktop App Installation](#)

Installation: ComfyUI on KITeGG Server

1. Clone ComfyUI GitHub Repository

1. Open a terminal

2. Download the ComfyUI repository

    In Terminal, run this command:

```
git clone https://github.com/comfyanonymous/ComfyUI
```

3. Navigate to the "custom_nodes" folder and download the ComfyUI Manager

    In Terminal, run these commands (one after the other):

```
cd ComfyUI/custom_nodes
```

```
git clone https://github.com/ltdrdata/ComfyUI-Manager
```
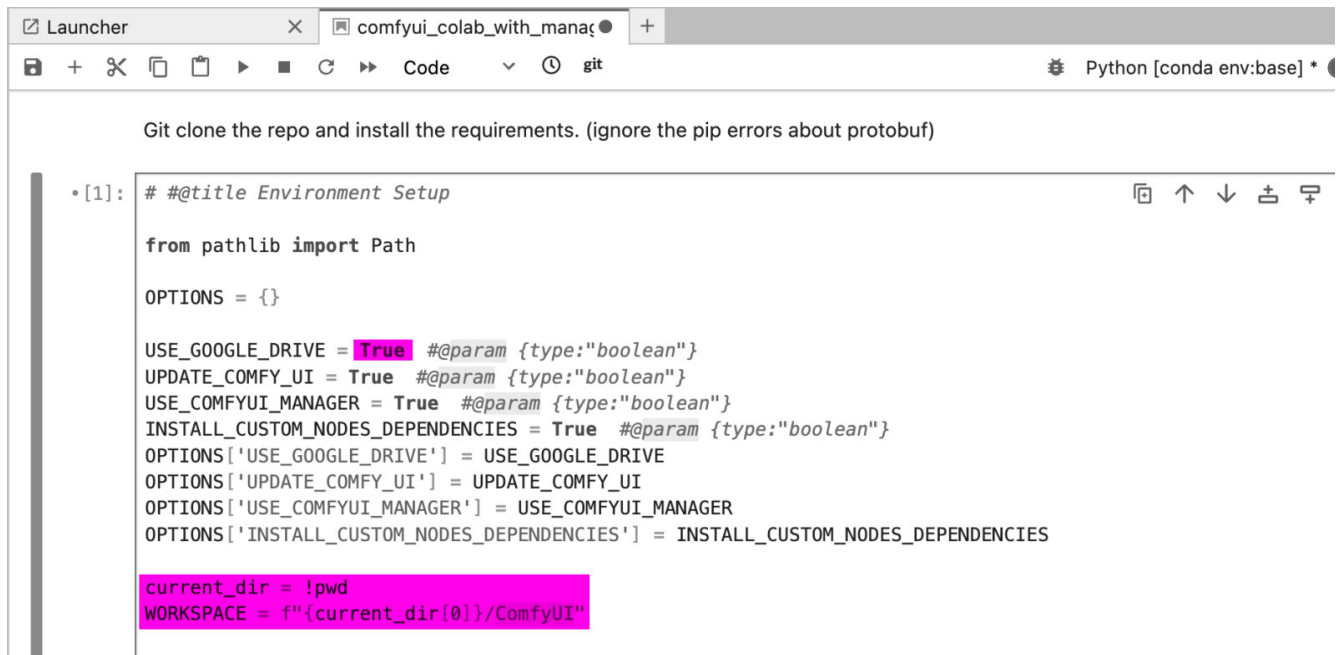
2. Run ComfyUI

2.1. Adapt Notebook for running it on the KITeGG Server

1. Navigate to the ComfyUI Manager notebook and open the Notebook "comfyui_colab_with_manager.ipynb"

Path: ComfyUI/custom_nodes/ComfyUI-Manager/notebooks/comfyui_colab_with_manager.ipynb

2. Make following changes to the notebook (pink Markups are going to be changed):


```
Launcher        X    comfyui_colab_with_manag ●    +

Code    ⌄  ⏱  git                                    Python [conda env:base] *

Git clone the repo and install the requirements. (ignore the pip errors about protobuf)

•[1]:  # #@title Environment Setup

       from pathlib import Path

       OPTIONS = {}

       USE_GOOGLE_DRIVE = True  #@param {type:"boolean"}
       UPDATE_COMFY_UI = True  #@param {type:"boolean"}
       USE_COMFYUI_MANAGER = True  #@param {type:"boolean"}
       INSTALL_CUSTOM_NODES_DEPENDENCIES = True  #@param {type:"boolean"}
       OPTIONS['USE_GOOGLE_DRIVE'] = USE_GOOGLE_DRIVE
       OPTIONS['UPDATE_COMFY_UI'] = UPDATE_COMFY_UI
       OPTIONS['USE_COMFYUI_MANAGER'] = USE_COMFYUI_MANAGER
       OPTIONS['INSTALL_CUSTOM_NODES_DEPENDENCIES'] = INSTALL_CUSTOM_NODES_DEPENDENCIES

       current_dir = !pwd
       WORKSPACE = f"{current_dir[0]}/ComfyUI"
```

a) Disable Google Drive Connection (Set USE_GOOGLE_DRIVE = "False")

Delete: USE_GOOGLE_DRIVE = True #@param {type:"boolean"}

Paste: USE_GOOGLE_DRIVE = False #@param {type:"boolean"}
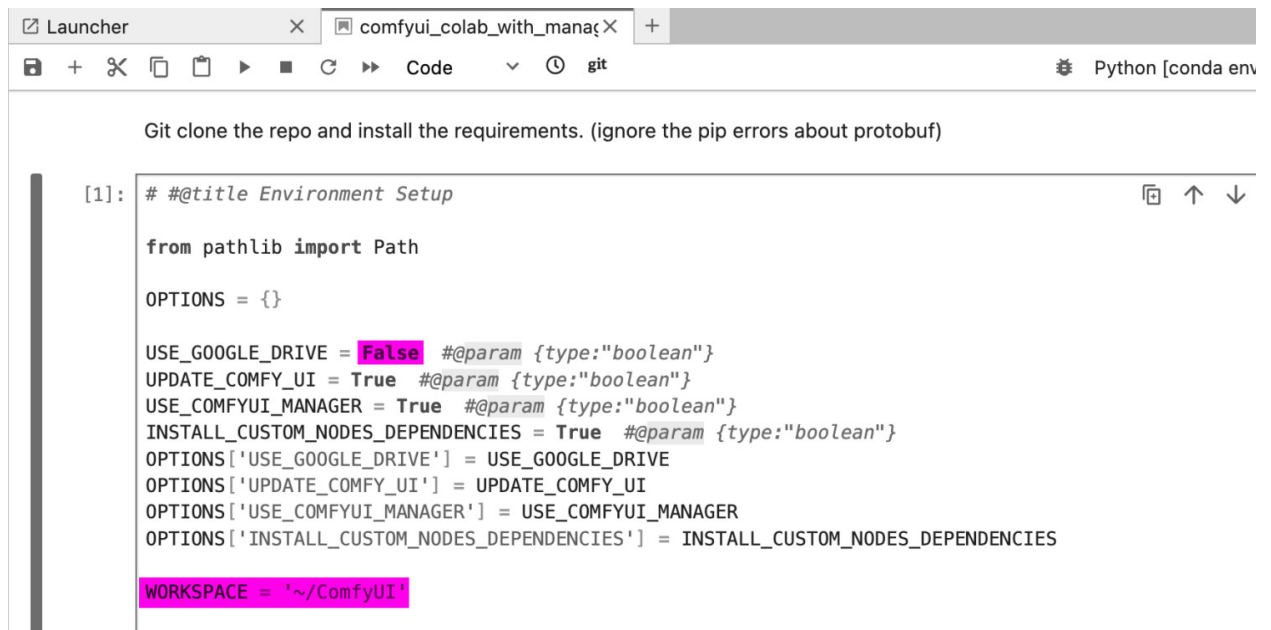
b) Change Workspace Location (Set WORKSPACE = '~/ComfyUI')

Delete: current_dir = !pwd

Delete: WORKSPACE = f"{current_dir[0]}/ComfyUI"

Paste: WORKSPACE = '~/ComfyUI'

3. Check and Run

a) Make sure the code looks like this:

Git clone the repo and install the requirements. (ignore the pip errors about protobuf)

```
[1]: # #@title Environment Setup

     from pathlib import Path

     OPTIONS = {}

     USE_GOOGLE_DRIVE = False  #@param {type:"boolean"}
     UPDATE_COMFY_UI = True   #@param {type:"boolean"}
     USE_COMFYUI_MANAGER = True   #@param {type:"boolean"}
     INSTALL_CUSTOM_NODES_DEPENDENCIES = True   #@param {type:"boolean"}
     OPTIONS['USE_GOOGLE_DRIVE'] = USE_GOOGLE_DRIVE
     OPTIONS['UPDATE_COMFY_UI'] = UPDATE_COMFY_UI
     OPTIONS['USE_COMFYUI_MANAGER'] = USE_COMFYUI_MANAGER
     OPTIONS['INSTALL_CUSTOM_NODES_DEPENDENCIES'] = INSTALL_CUSTOM_NODES_DEPENDENCIES

     WORKSPACE = '~/ComfyUI'
```
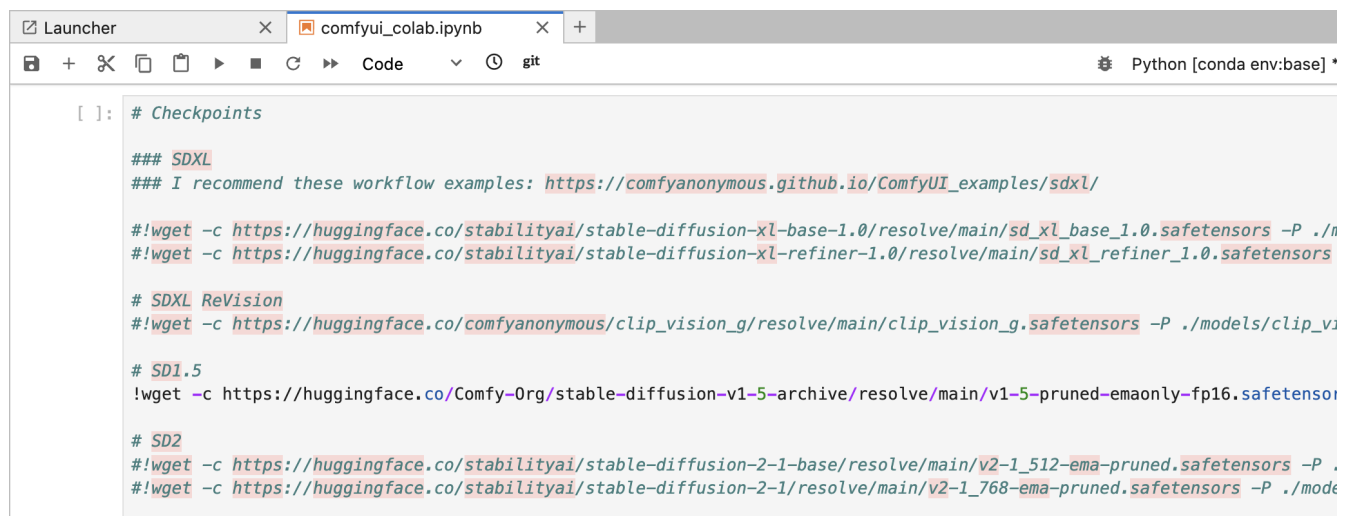
b) save the notebook changes ⌘S

c) run the cell ⇧↵

2.2. Install Models

1. Go to the Second Cell


```
[ ]: # Checkpoints

     ### SDXL
     ### I recommend these workflow examples: https://comfyanonymous.github.io/ComfyUI_examples/sdxl/

     #!wget -c https://huggingface.co/stabilityai/stable-diffusion-xl-base-1.0/resolve/main/sd_xl_base_1.0.safetensors -P ./m
     #!wget -c https://huggingface.co/stabilityai/stable-diffusion-xl-refiner-1.0/resolve/main/sd_xl_refiner_1.0.safetensors

     # SDXL ReVision
     #!wget -c https://huggingface.co/comfyanonymous/clip_vision_g/resolve/main/clip_vision_g.safetensors -P ./models/clip_vi

     # SD1.5
     !wget -c https://huggingface.co/Comfy-Org/stable-diffusion-v1-5-archive/resolve/main/v1-5-pruned-emaonly-fp16.safetensor

     # SD2
     #!wget -c https://huggingface.co/stabilityai/stable-diffusion-2-1-base/resolve/main/v2-1_512-ema-pruned.safetensors -P .
     #!wget -c https://huggingface.co/stabilityai/stable-diffusion-2-1/resolve/main/v2-1_768-ema-pruned.safetensors -P ./mode
```

2. Uncomment the models you want to install (delete the "#" in front of the lines)

   you can always install more models later

3. run the cell ⇧↵

2.3. Install ControlNet Preprocessor

open Terminal, paste and run code:

```
cd ComfyUI/custom_nodes/
```

```
git clone https://github.com/Fannovel16/comfyui_controlnet_aux/
```

```
cd comfyui_controlnet_aux
```

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

if this does not work, check for updates in the Installation guide at GitHub - Fannovel16/comfyui_controlnet_aux: ComfyUI's ControlNet Auxiliary Preprocessors

2.4. Open Comfy UI

0. (If you did 2.4.: Go back to the Notebook)

1. Run the last cell "ComfyUI with cloudflared"

2. In the terminal code, search for the `URL to access ComfyUI` (https://xxxx-xxxxx-xxxx.trycloudflare.com) and copy it to your browser.

3. Always stop your server (important)!

At end of use, please do not forget to stop your server. It uses a lot of energy. Thanks:)

To do so go to `File > Hub Control Panel > Stop My Server`

Hints

Opening ComfyUI after initial installation

(no Terminal needed)

1. Open the Notebook like before
   Path: `ComfyUI/custom_nodes/ComfyUI-Manager/notebooks/comfyui_colab_with_manager.ipynb`
2. **Run All Three Cells** (wait for Processes to complete before running next cell)
   add more models by uncommenting them in the 2nd cell if you like
3. In the terminal code of the last cell, search for the `URL to access ComfyUI` (https://xxxx-xxxxx-xxxx.trycloudflare.com) and copy it to your browser.

Tutorial Recommendations

- (Links zu unseren Tutorials)
- (Links zu unseren Tutorials)
- (Links zu unseren Tutorials)
- https://www.youtube.com/watch?v=LNOIk8oz1nY&list=PLH1tkjphTlWUTApzX-Hmw_WykUpG13eza

Tutorial recommendation: Olivio Sarikas - Learn ComfyUI Playlist (1 - 8)

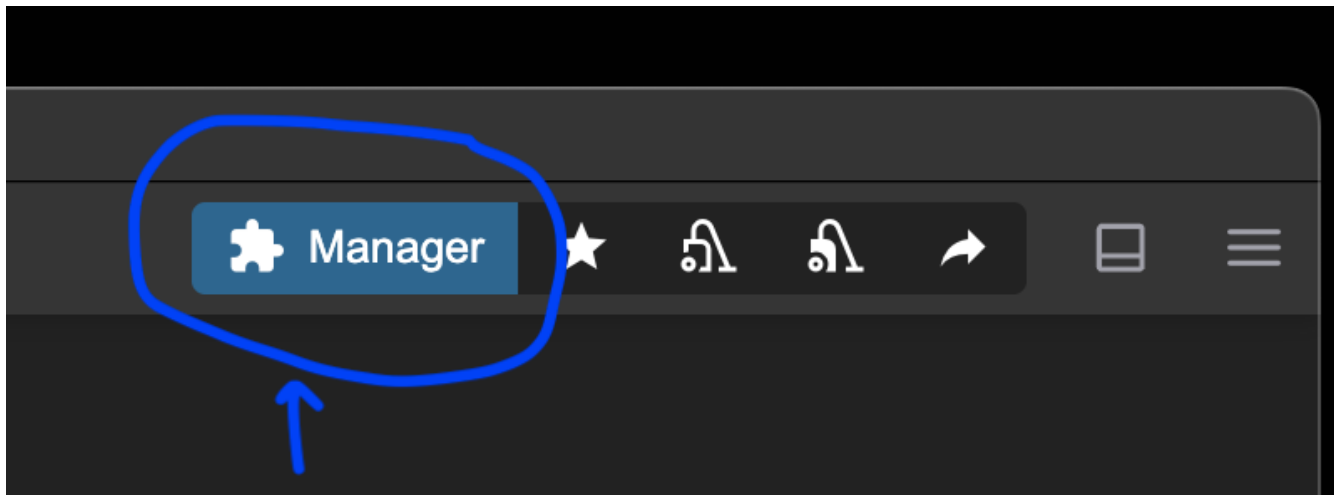# Desktop App Installation

1. Download and Install App

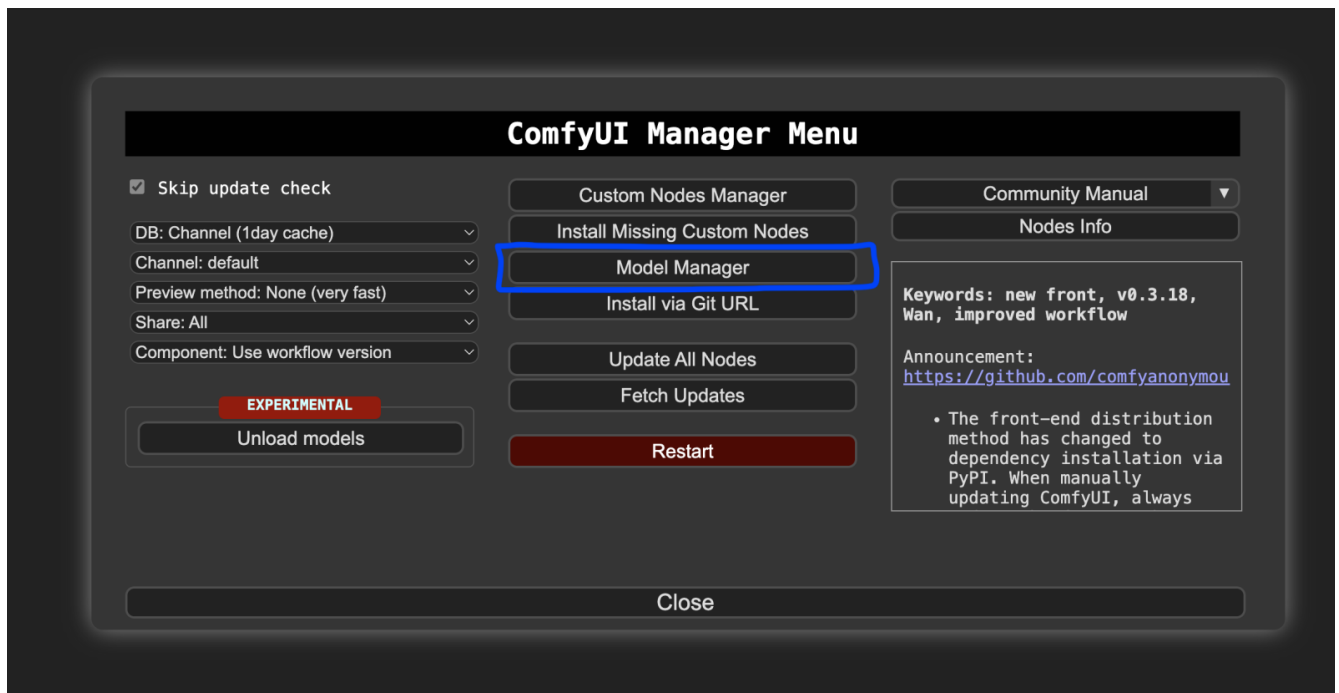https://www.comfy.org/download

Download the app, follow installation instructions, start Prompting

2. Add Models
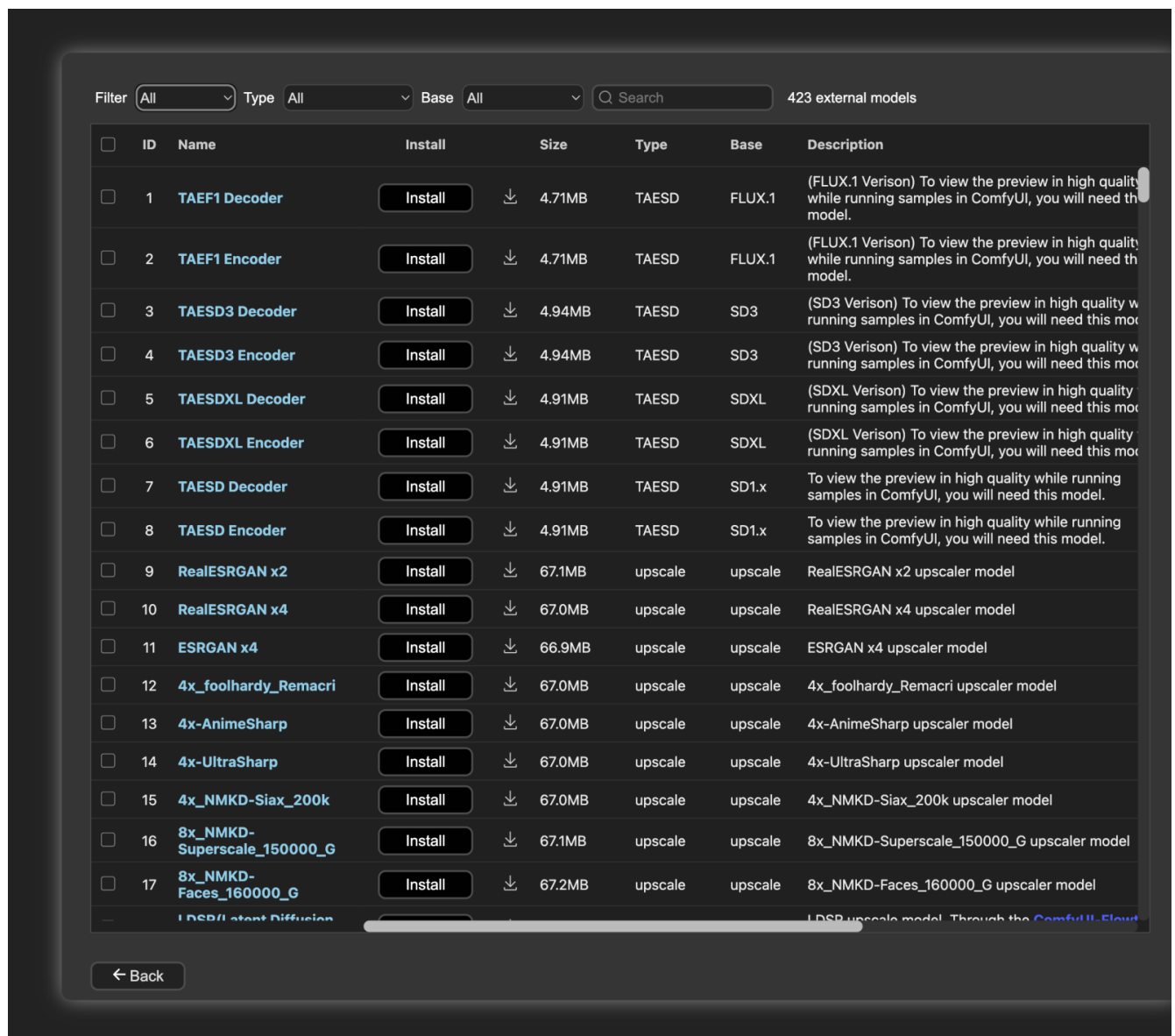
2.1. Open ComfyUI Manager, go to Model Manager

In the top right corner of the app window click "Manager".
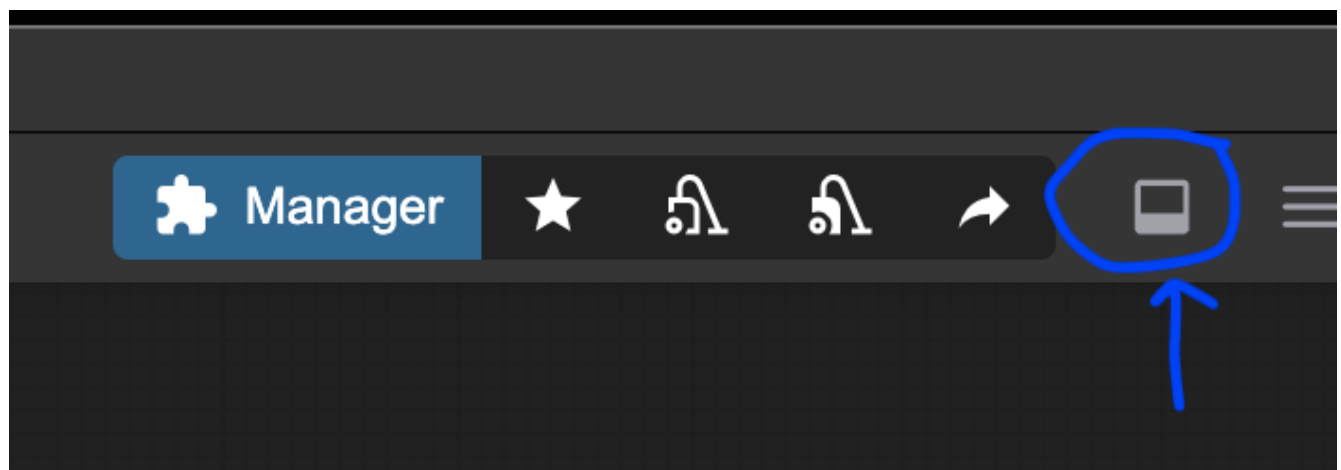
Open the Model Manager

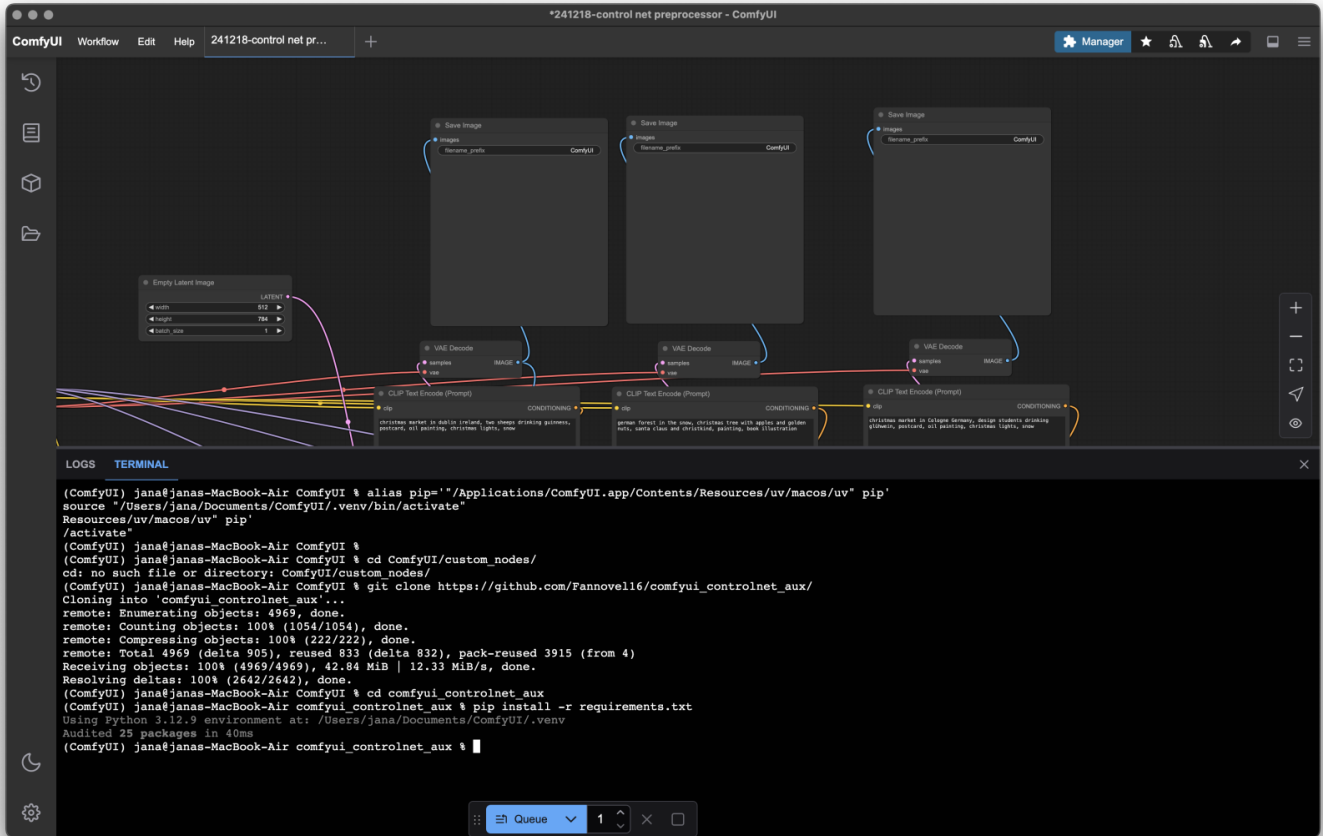## 2.2. Install Model, then Click Refresh and Restart the App

	ID	Name	Install		Size	Type	Base	Description
☐	1	TAEF1 Decoder	Install	↓	4.71MB	TAESD	FLUX.1	(FLUX.1 Verison) To view the preview in high quality while running samples in ComfyUI, you will need th model.
☐	2	TAEF1 Encoder	Install	↓	4.71MB	TAESD	FLUX.1	(FLUX.1 Verison) To view the preview in high quality while running samples in ComfyUI, you will need th model.
☐	3	TAESD3 Decoder	Install	↓	4.94MB	TAESD	SD3	(SD3 Verison) To view the preview in high quality w running samples in ComfyUI, you will need this mo
☐	4	TAESD3 Encoder	Install	↓	4.94MB	TAESD	SD3	(SD3 Verison) To view the preview in high quality w running samples in ComfyUI, you will need this mo
☐	5	TAESDXL Decoder	Install	↓	4.91MB	TAESD	SDXL	(SDXL Verison) To view the preview in high quality running samples in ComfyUI, you will need this mo
☐	6	TAESDXL Encoder	Install	↓	4.91MB	TAESD	SDXL	(SDXL Verison) To view the preview in high quality running samples in ComfyUI, you will need this mo
☐	7	TAESD Decoder	Install	↓	4.91MB	TAESD	SD1.x	To view the preview in high quality while running samples in ComfyUI, you will need this model.
☐	8	TAESD Encoder	Install	↓	4.91MB	TAESD	SD1.x	To view the preview in high quality while running samples in ComfyUI, you will need this model.
☐	9	RealESRGAN x2	Install	↓	67.1MB	upscale	upscale	RealESRGAN x2 upscaler model
☐	10	RealESRGAN x4	Install	↓	67.0MB	upscale	upscale	RealESRGAN x4 upscaler model
☐	11	ESRGAN x4	Install	↓	66.9MB	upscale	upscale	ESRGAN x4 upscaler model
☐	12	4x_foolhardy_Remacri	Install	↓	67.0MB	upscale	upscale	4x_foolhardy_Remacri upscaler model
☐	13	4x-AnimeSharp	Install	↓	67.0MB	upscale	upscale	4x-AnimeSharp upscaler model
☐	14	4x-UltraSharp	Install	↓	67.0MB	upscale	upscale	4x-UltraSharp upscaler model
☐	15	4x_NMKD-Siax_200k	Install	↓	67.0MB	upscale	upscale	4x_NMKD-Siax_200k upscaler model
☐	16	8x_NMKD-Superscale_150000_G	Install	↓	67.1MB	upscale	upscale	8x_NMKD-Superscale_150000_G upscaler model
☐	17	8x_NMKD-Faces_160000_G	Install	↓	67.2MB	upscale	upscale	8x_NMKD-Faces_160000_G upscaler model

3. Install Control Net Preprocessor

3.1. Open In-App-Terminal

3.2. paste and run code:

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

```
cd comfyui_controlnet_aux
```

```
git clone <https://github.com/Fannovel16/comfyui_controlnet_aux/>
```

```
cd ComfyUI/custom_nodes/
```