

A guide to getting started with the paperspace port of AUTOMATIC1111's web UI for ppl who get nervous

What you need: an account on paperspace.com

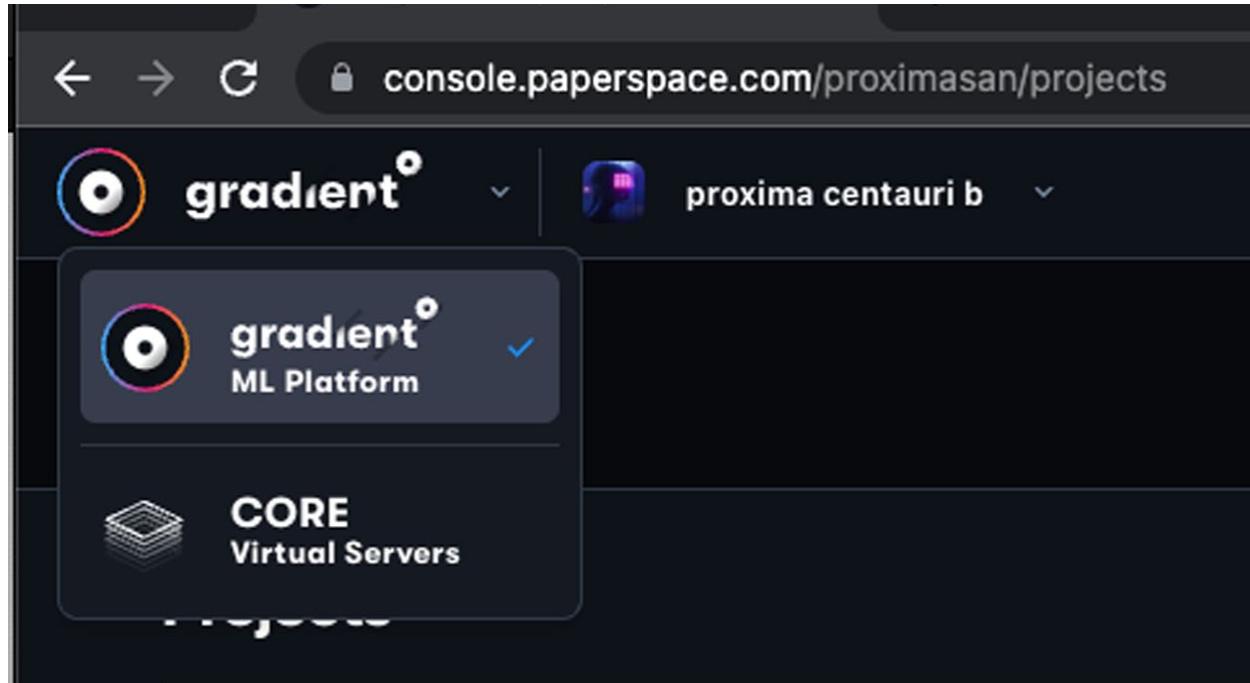
Subscription required: no

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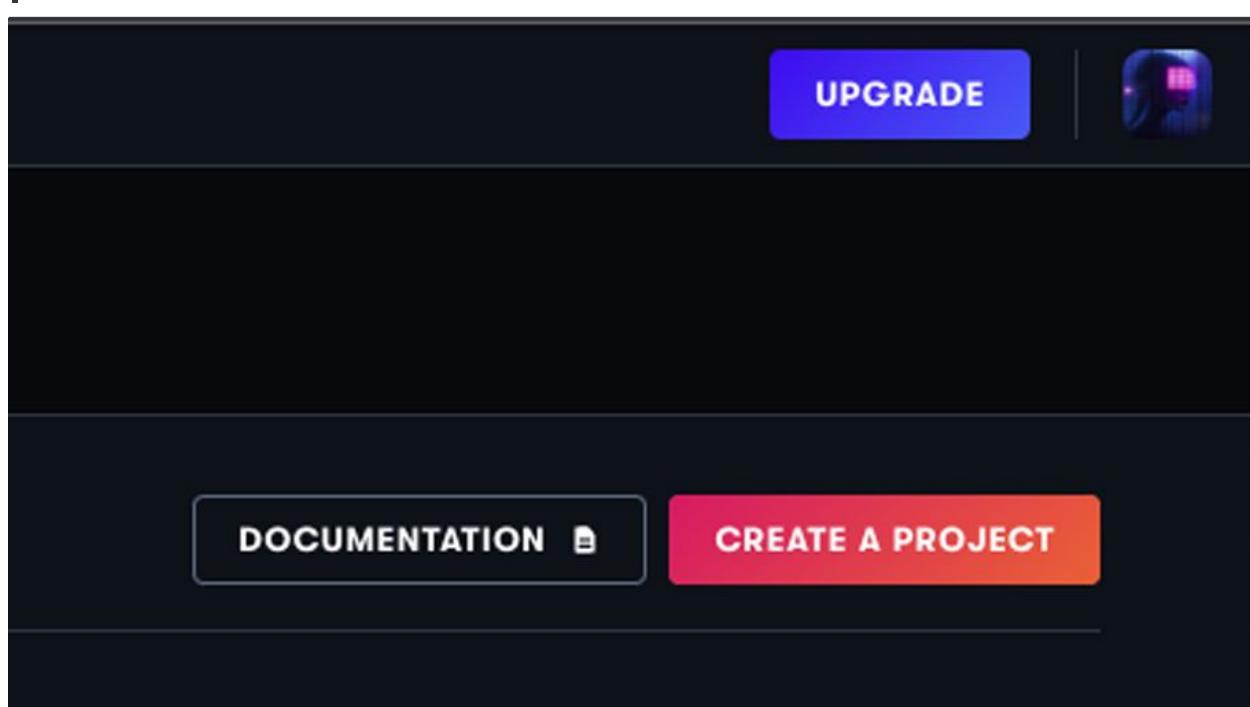
First Setup

| When you're logged in, go to "gradient":

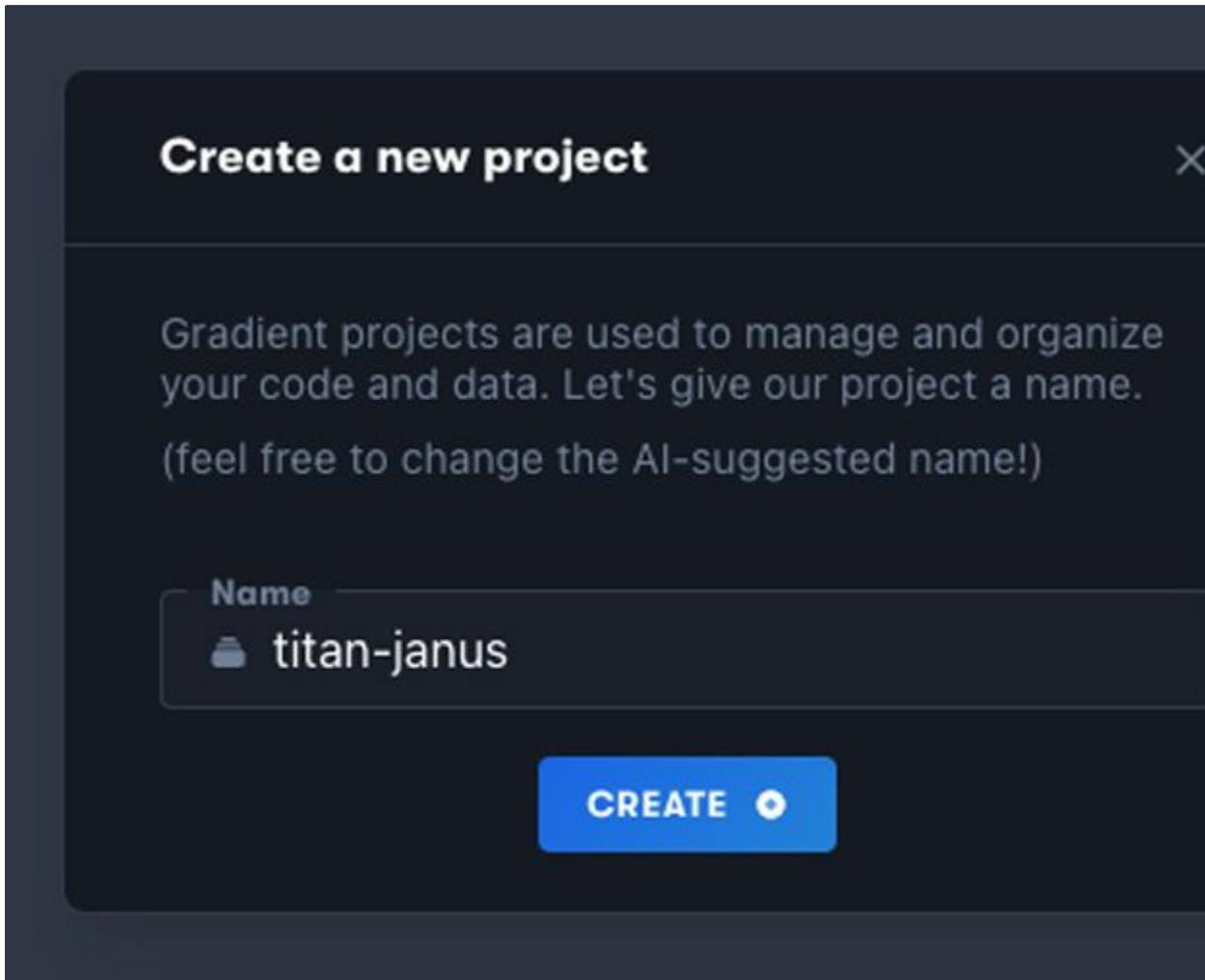




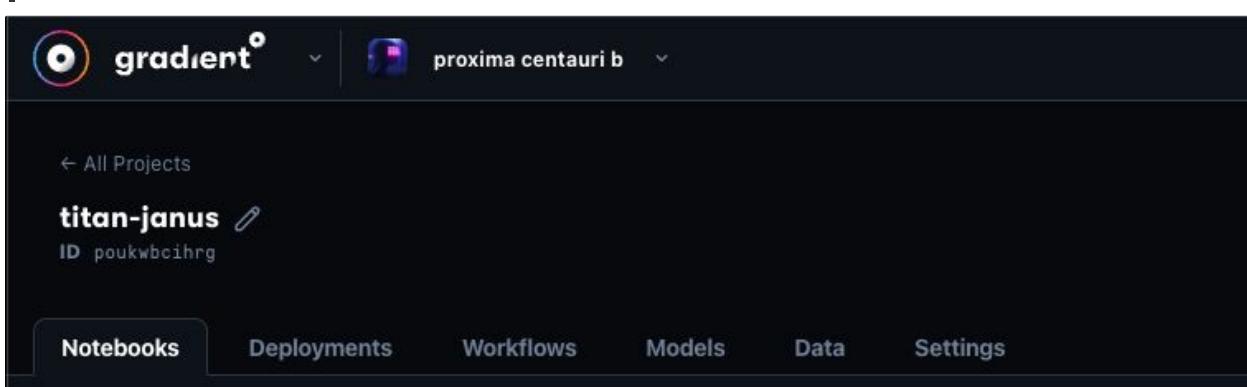
There you'll have to click on "create a project"

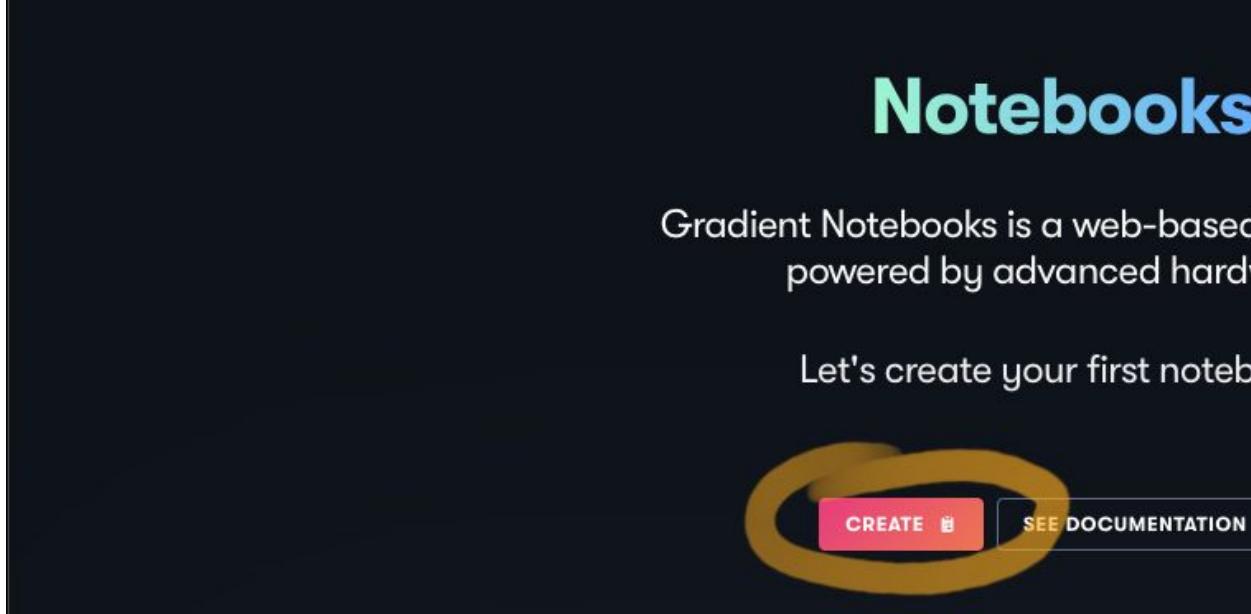


Go with the name that was automatically generated or type in a new one, click on "create"



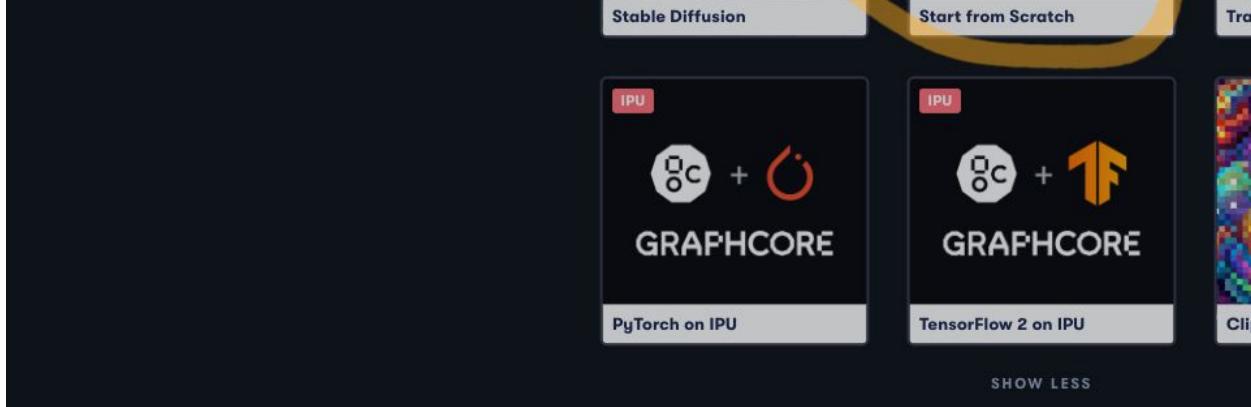
There you'll create a new notebook





Choose “start from scratch”

This screenshot shows the "Notebooks" tab selected in the navigation bar. Below it, a section titled "Select a runtime" with the sub-instruction "Start your notebook with a template runtime and its contents." displays several runtime options as cards. The first card, "PyTorch 1.12", has a checkmark above it and is highlighted with a yellow circle at the bottom right. Other visible cards include "TensorFlow 2.0", "NVIDIA RAPIDS", and "GRAPHCORE". Each card shows its name and version, along with small icons related to the runtime.



Choose a GPU. The RTX4000 is a great free one, here's an overview

Select a machine

Choose the machine we should use to run your notebooks.

Free-GPU GPU
Free | 30 GiB RAM | 8 CPU | 8 GiB GPU

GPU ⚡

🔍 Search machines...

Free-GPU
Free | 30 GiB RAM | 8 CPU | 8 GiB GPU

Free-P5000

Free | 30 GiB RAM | 8 CPU | 16 GiB GPU

Free-RTX4000

Free | 30 GiB RAM | 8 CPU | 8 GiB GPU

Free-A5000

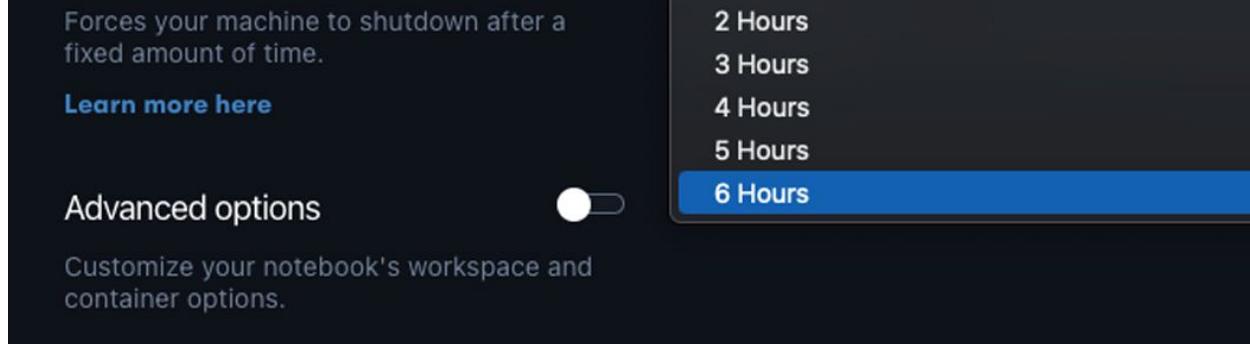
Free | 45 GiB RAM | 8 CPU | 24 GiB GPU

Free-A6000

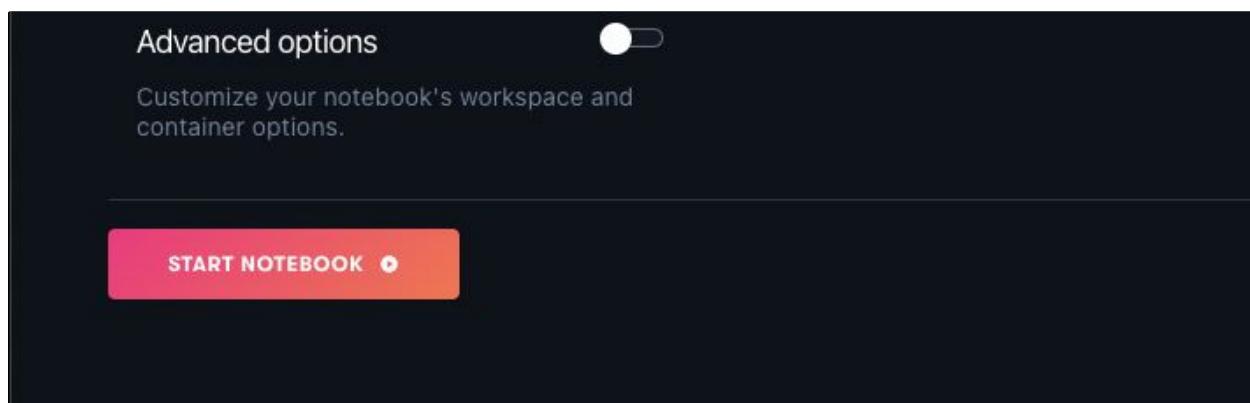
I usually go with 6 hours

Auto-shutdown timeout

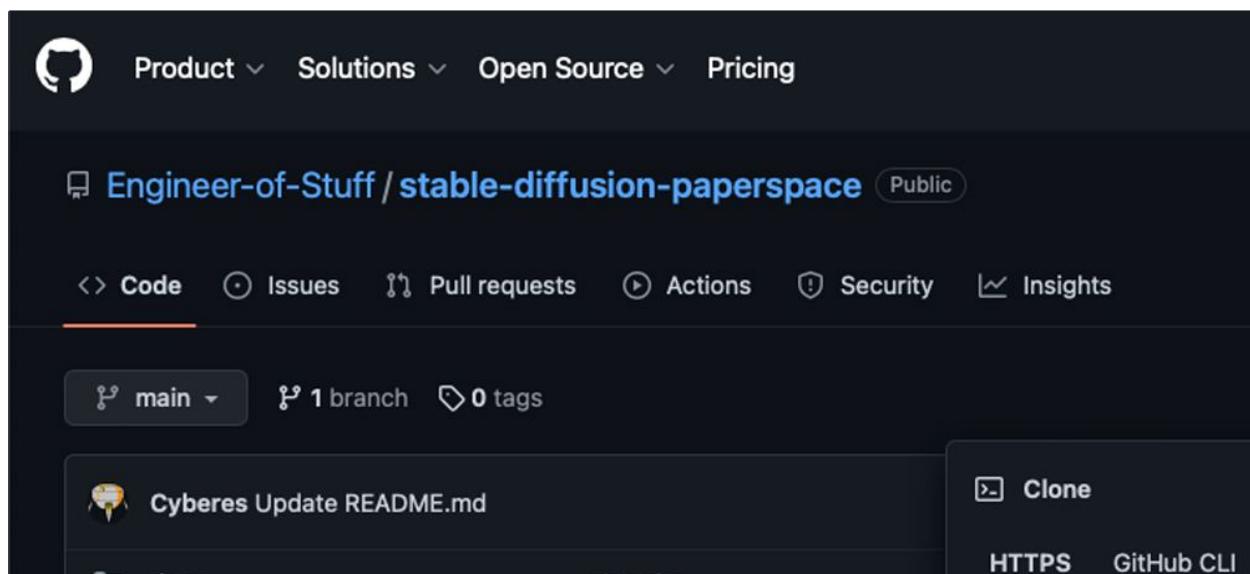
✓ 1 Hour

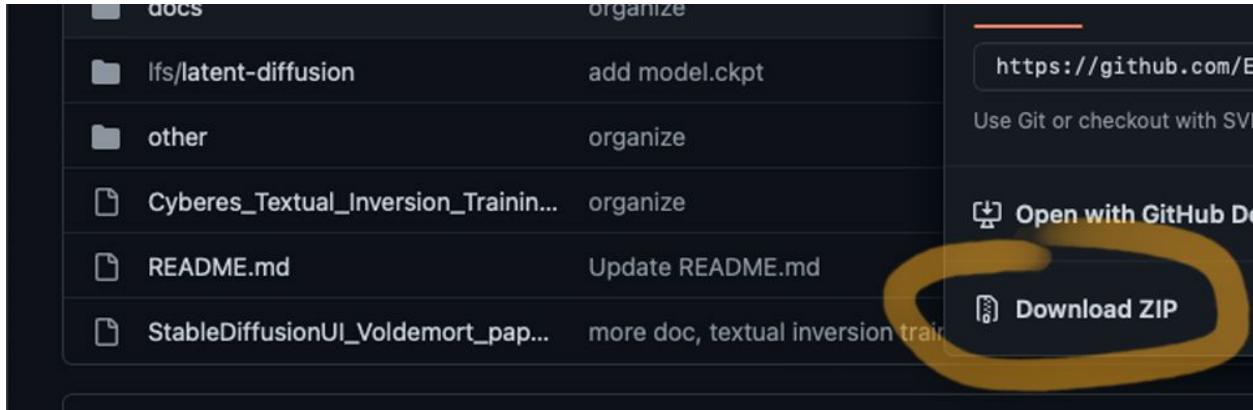


Click on “start notebook” at the bottom



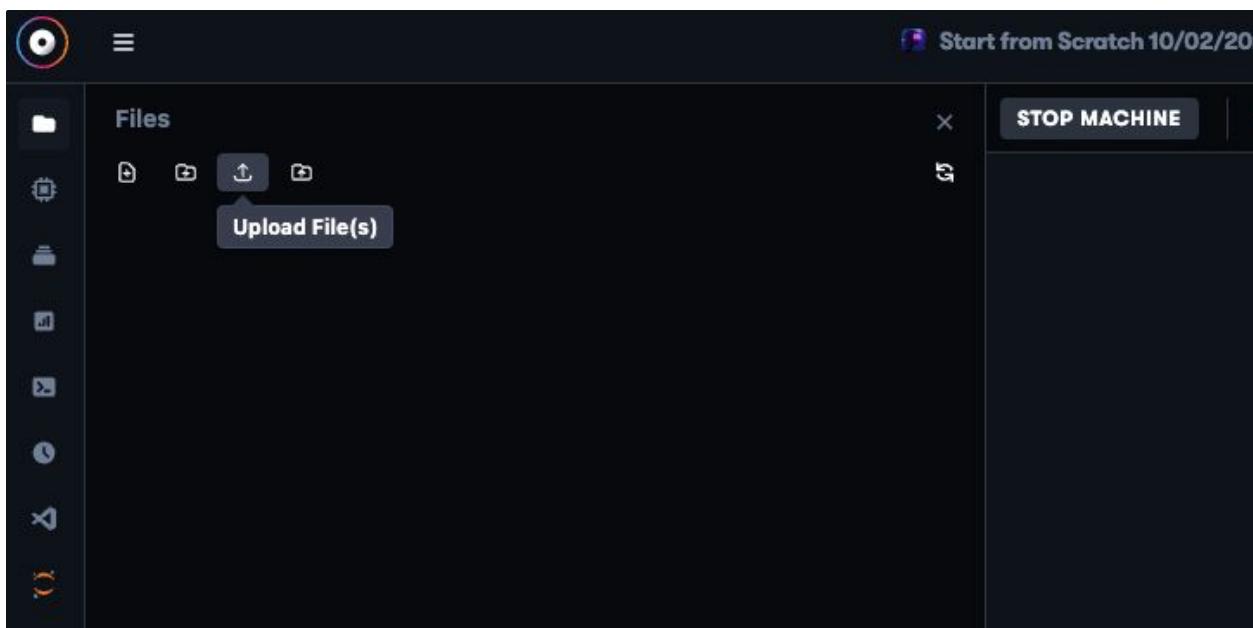
Download the zip-file that contains the notebook [here](#) and unzip





Click on the “upload files” icon in the top left and upload

```
StableDiffusionUI_Voldemort_paperspace.ipynb
```



In the first code cell of the notebook, uncomment the code that applies to you. So if you don't have a subscription, remove # on line 2 - 4.

The screenshot shows a Jupyter Notebook cell with the following code:

```
1 # Free tier
2 # free_tier = True
3 # model_storage_dir = '/tmp/stable-diffusion/models'
4 # repo_storage_dir = '/notebooks'
5
6 # Paid Tier
7 # free_tier = False
8 # model_storage_dir = '/storage/models'
9 # repo_storage_dir = '/notebooks'
10
11 # Don't put a trailing slash on directory paths.
12 # To reset your storage directory, rerun this cell. $|_
13
14 # =====
15 # Save variables to Jupiter's temp storage so we can
16 %store free_tier model_storage_dir repo_storage_dir
```

A progress bar at the bottom of the cell indicates it is still running.

I do have a subscription so I will uncomment line 7 - 9 and it will look like this:

The screenshot shows a Jupyter Notebook cell with the following code, where lines 7, 8, and 9 have been uncommented:

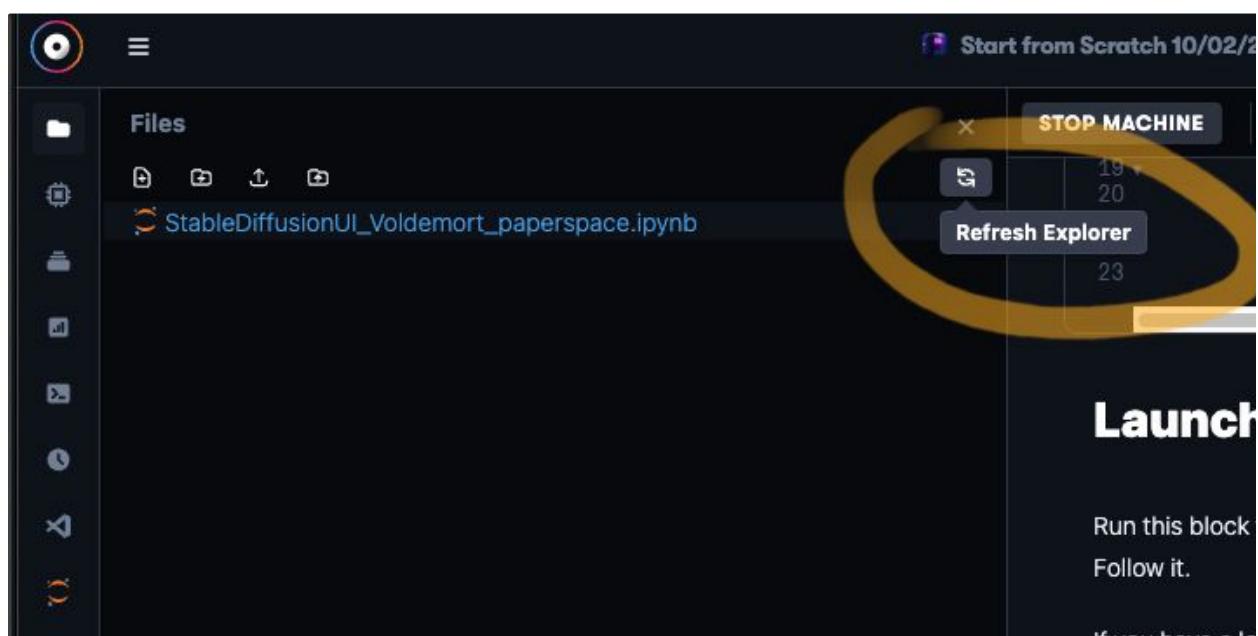
```
1 # Free tier
2 # free_tier = True
3 # model_storage_dir = '/tmp/stable-diffusion/models'
4 # repo_storage_dir = '/notebooks'
5
6 # Paid Tier
7 free_tier = False
8 model_storage_dir = '/storage/models'
9 repo_storage_dir = '/notebooks'
10
11 # Don't put a trailing slash on directory paths.
```

```
12 # To reset your storage directory, rerun this cell.$
13
14 # =====
15 # Save variables to Jupiter's temp storage so we can
16 %store free_tier model_storage_dir repo_storage_dir
```

The rest has great instructions in the notebook, so you probably don't need my help there.

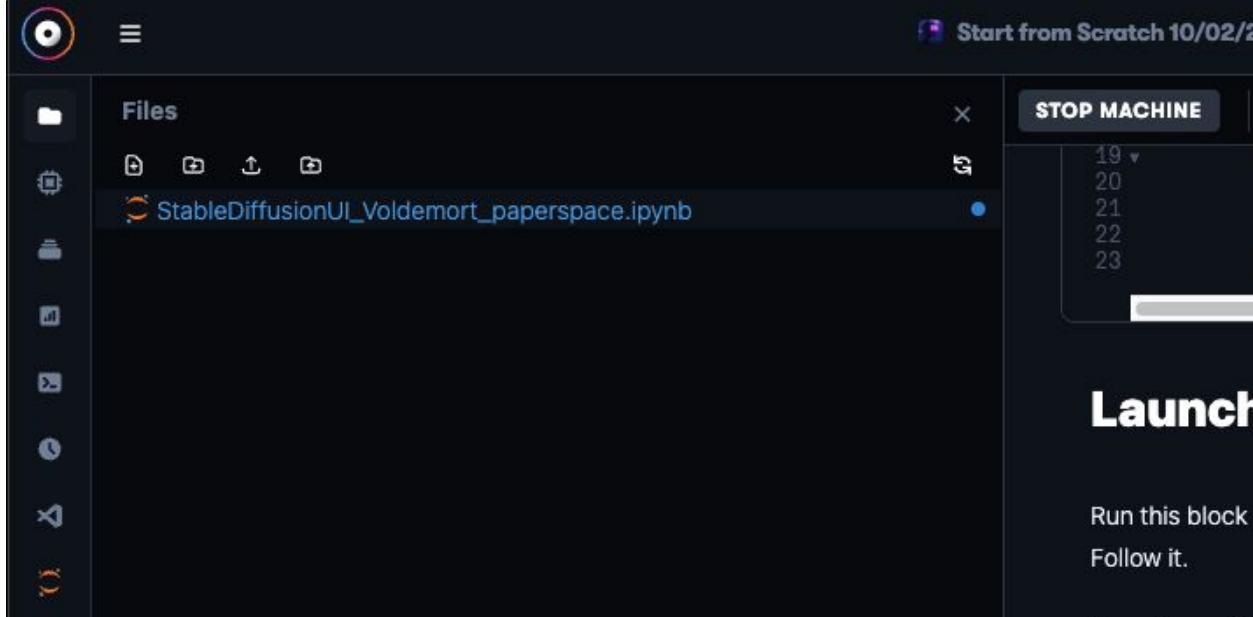
Some other tips

Sometimes you have to click on this icon for your output folder or new images in it to show up

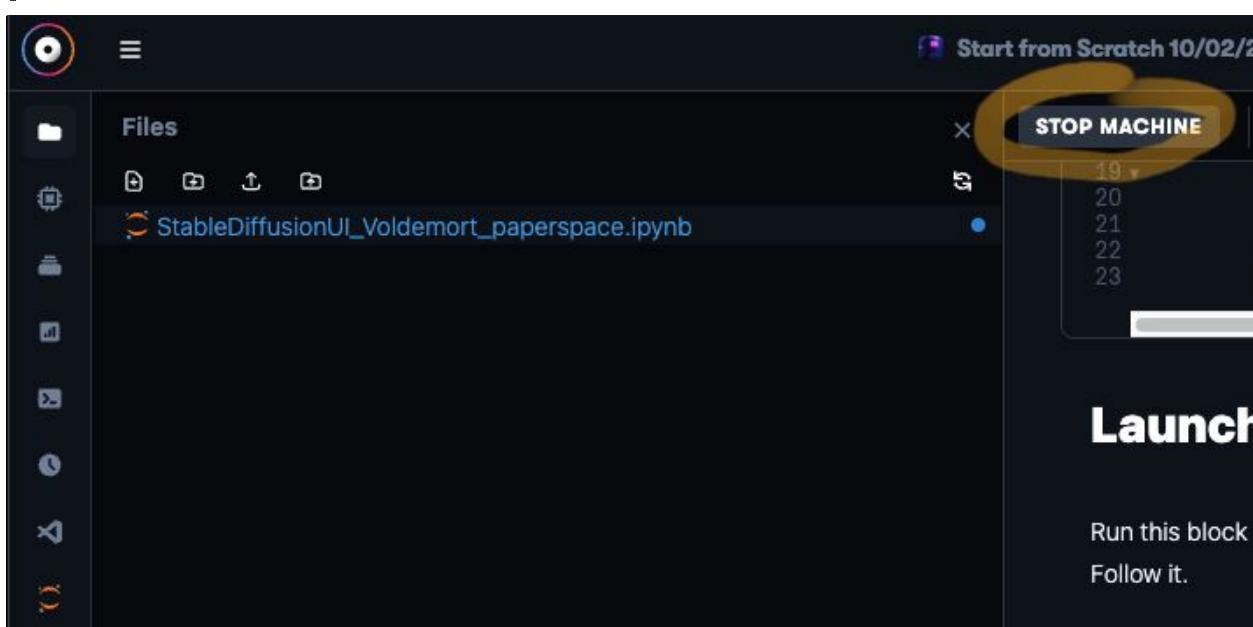


When the Web UI gets buggy/unresponsive,

you can restart the kernel. You don't have to run all the code cells again, only the one that belongs to "Launch the WebUI"



Whenever you're finished don't forget to stop the machine as to not waste resources
:)



Always check if the zip-file that contains your output works after you generated it, before deleting the unzipped output folder in the paperspace files window

A cool thing about paperspace is that disconnecting/stopping the machine will not result in all your notebook settings & output files getting deleted, unlike with colab. So whenever you spin it up again, you won't have to reconfigure your settings. This means you have to do more file management regarding your ouput tho, as to not face additional storage costs