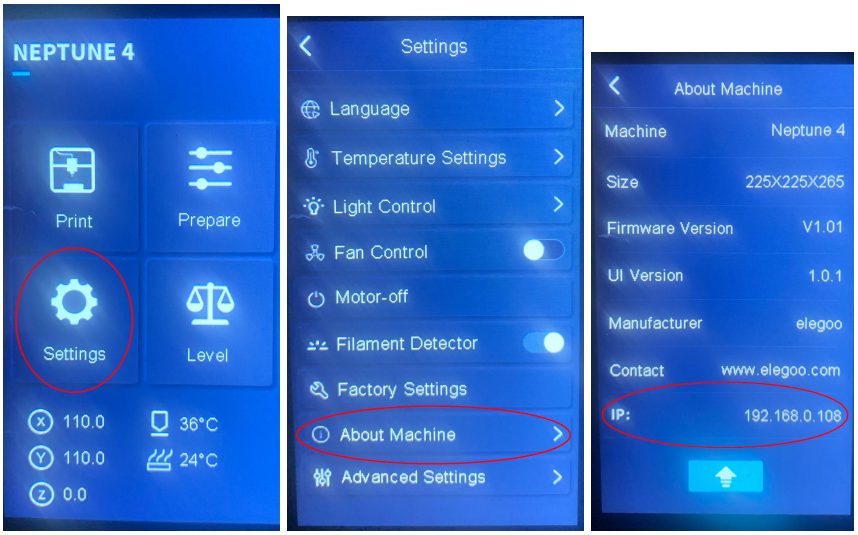
Hello, my dear friends!

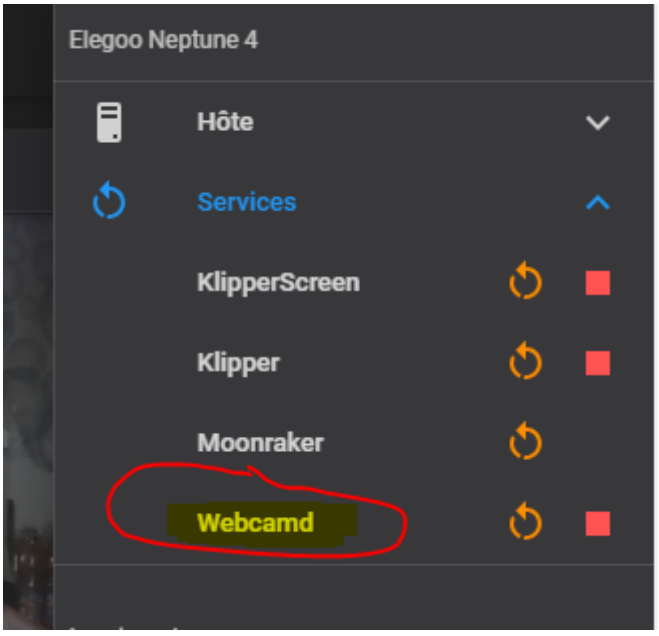
Here is a tutorial to add a webcam to the Neptune 4 / 4 Pro / 4 PLUS / 4 MAX printer!

You will need to know the IP address of your printer (your printer must be connected to your network via ethernet (cable) or wifi)

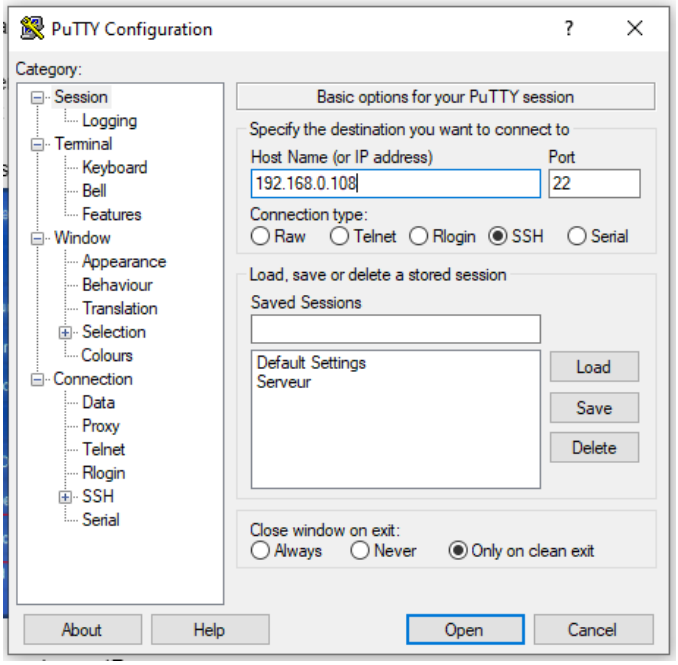
Once connected, go to the about machine menu



First of all, go to the Fluid web interface and check that if you have the webcam service displayed in the menu at the top right. If this is the case, before starting the procedure, try simply adding your webcam via the settings menu -> webcam -> add webcam

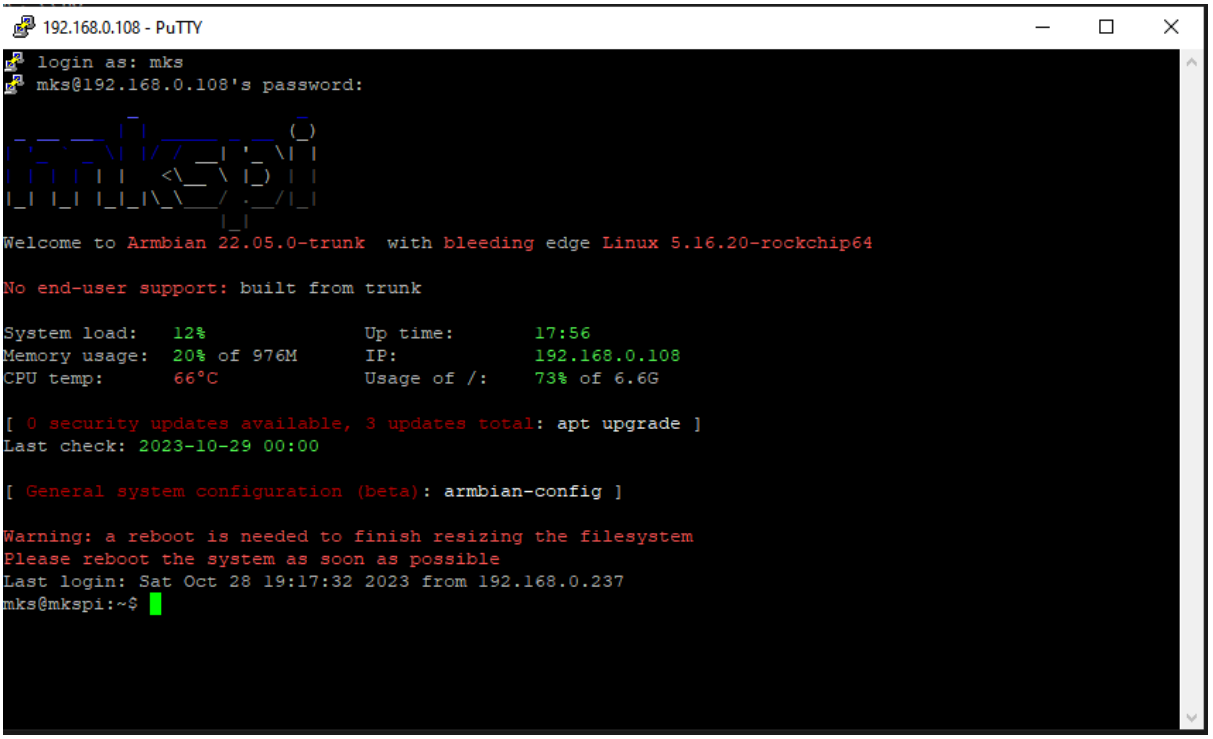


If it's not the case :
Once in the menu you will have an IP address
Use an application to access your printer via ssh such as the putty application
https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
indicate the ip address in as if below and press open



Type as login: mks
password: makerbase
/!\ the password is not displayed, this is completely normal ;-)

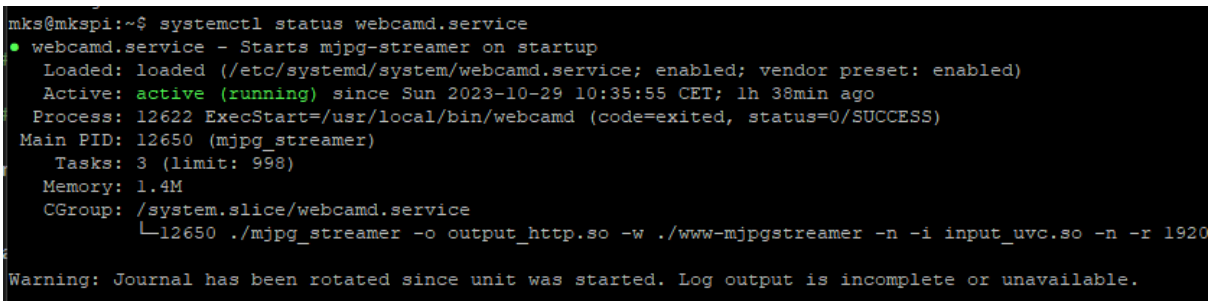
You arrive at this interface:



The first thing to copy or enter is 3 commands:

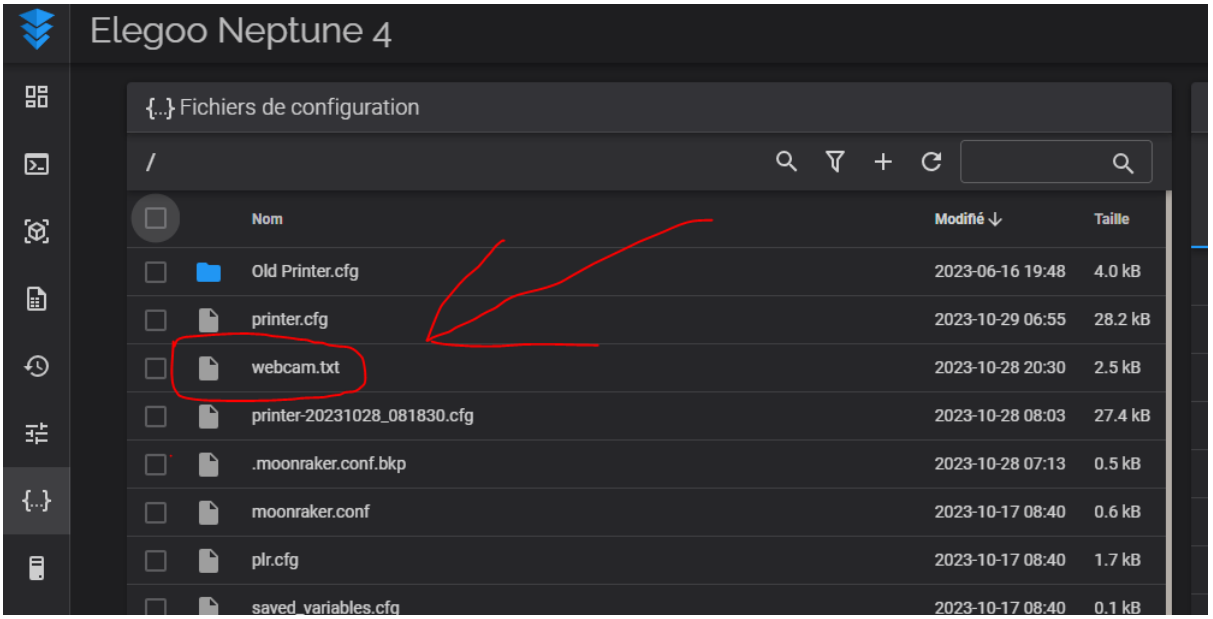
sudo systemctl enable webcamd
sudo systemctl start webcamd
systemctl status webcamd.service

you will get something like this with the last command:

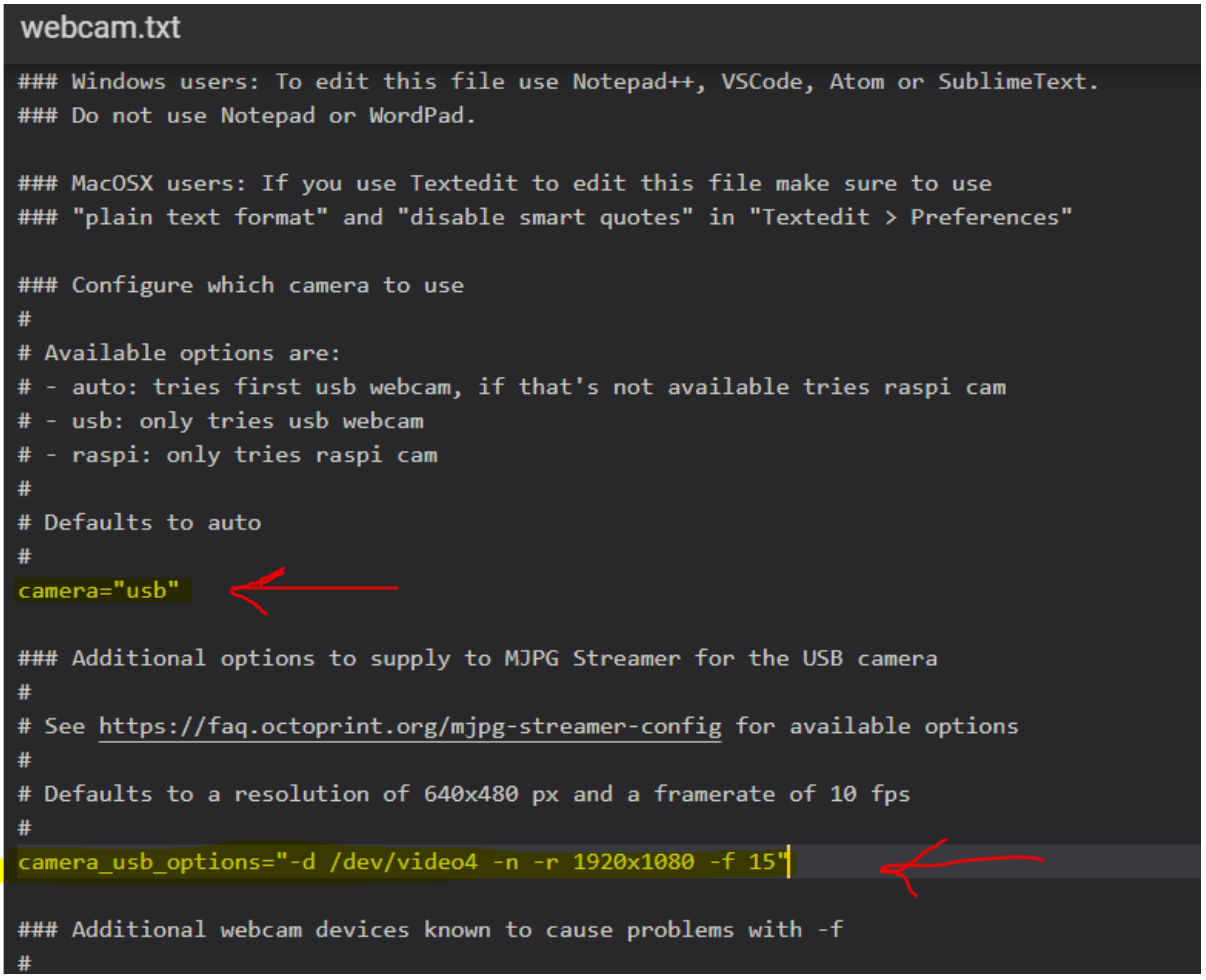


Once this is done you go to the printer's web interface and go to the configuration tab

In this part search and click on the webcam.txt file



In this file you will have to modify 2 lines:



- So line 16 (logically) should come: camera="usb"
- Line 24 should normally become: camera_usb_options="-d /dev/video4 -n -r 1920x1080 -f 15"

If you know the resolution of your webcam, simply change the resolution in the line:

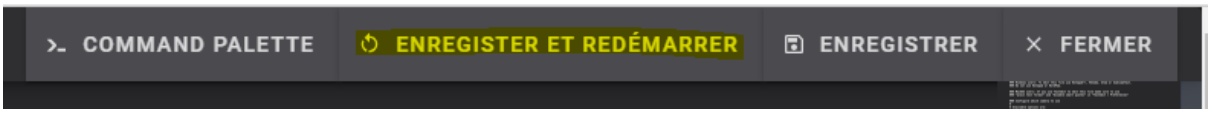
Here the full HD resolution is 1920x1080
In 2k it will be 2048x1080 and in 4k it gives 4096x2160

So for a camera:

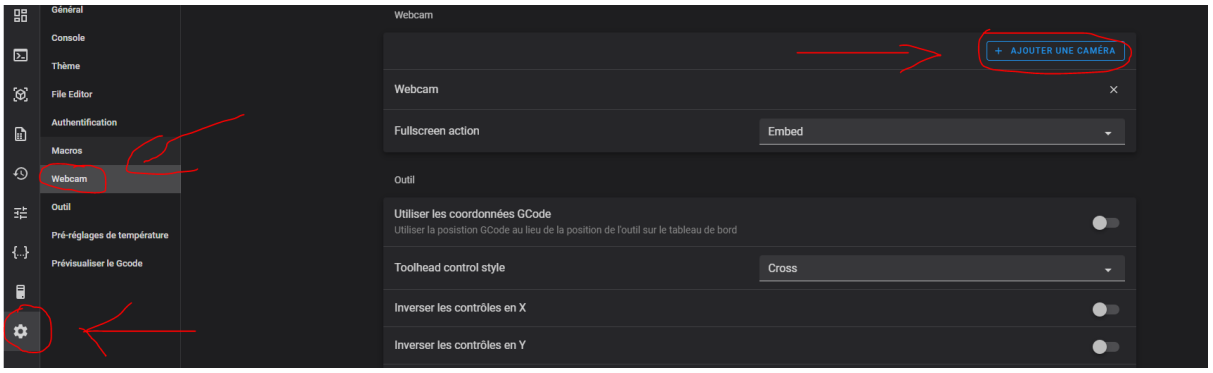
FULL HD: camera_usb_options="-d /dev/video4 -n -r 1920x1080 -f 15"
2K: camera_usb_options="-d /dev/video4 -n -r 2048x1080 -f 15"
4k: camera_usb_options="-d /dev/video4 -n -r 4096x2160 -f 15"

You can also increase the number of frames per second by changing the number 15 to 30 or 60 depending on your needs.

Once the 2 lines have changed click on SAVE and RESTART

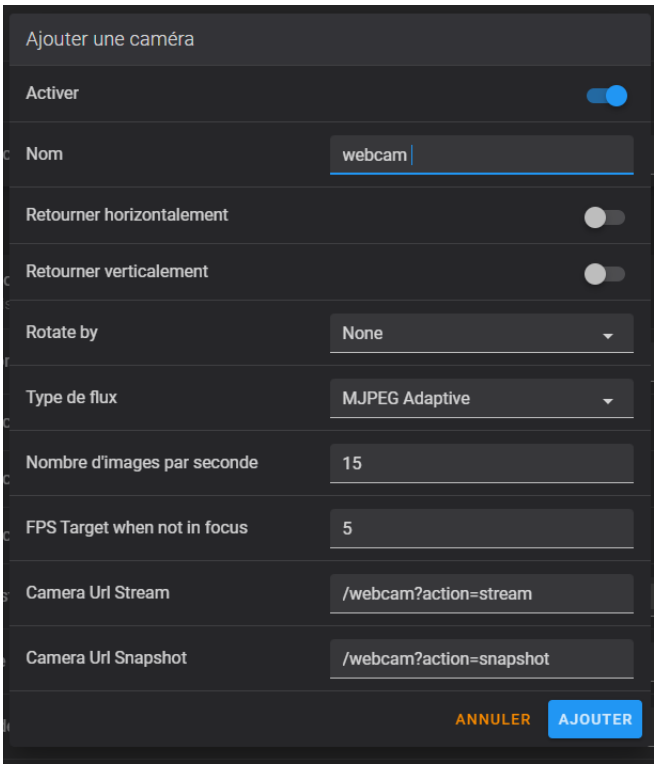


We are going to add the camera to the interface go to the settings:



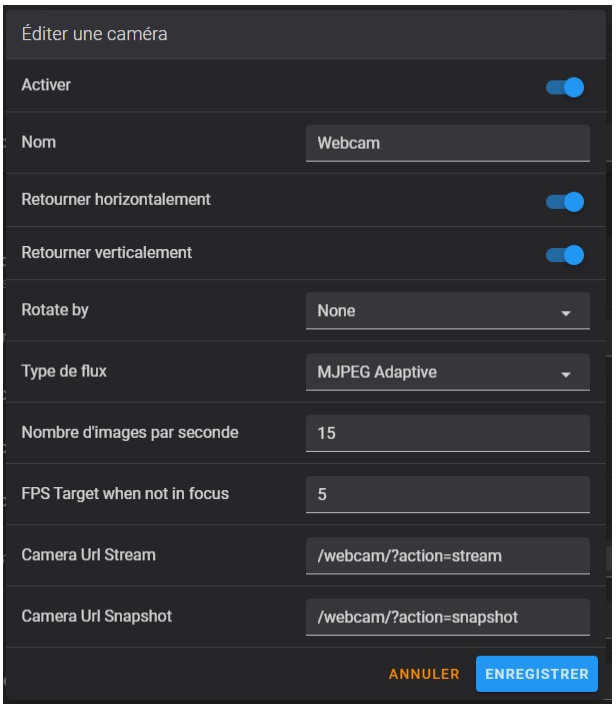
Then click on Webcam and finally on the blue button +Add camera

Then you can fill in like this:
Adapt the number of frames per second to your needs.



Click the add button and your camera will be added to the printer's web interface.

If, on the other hand, you don't see anything, try this configuration:



Camera Url Stream : **/webcam/?action=stream**
Camera Url Snapshot : **/webcam/?action=snapshot**

If you have a concern or comment, do not hesitate to let me know, I will make the modifications and adaptations.

Long life and prosperity, may the power of print be with you!

Credit :

Julien Mairy
https://www.youtube.com/@printernbeer
https://www.facebook.com/Smarthome42
https://www.facebook.com/groups/impressions3dfr
https://www.facebook.com/groups/3542600406013711