######################
WARNING :
This method is in no way obligatory! if you don't want this option and you want the normal printer.cfg you just need to take the printer.cfg, no need for the bed_mesh_area.cfg file

PLEASE NOTE: once this option is activated you no longer need to make a traditional bed mesh!!!! This option replaces it!
######################

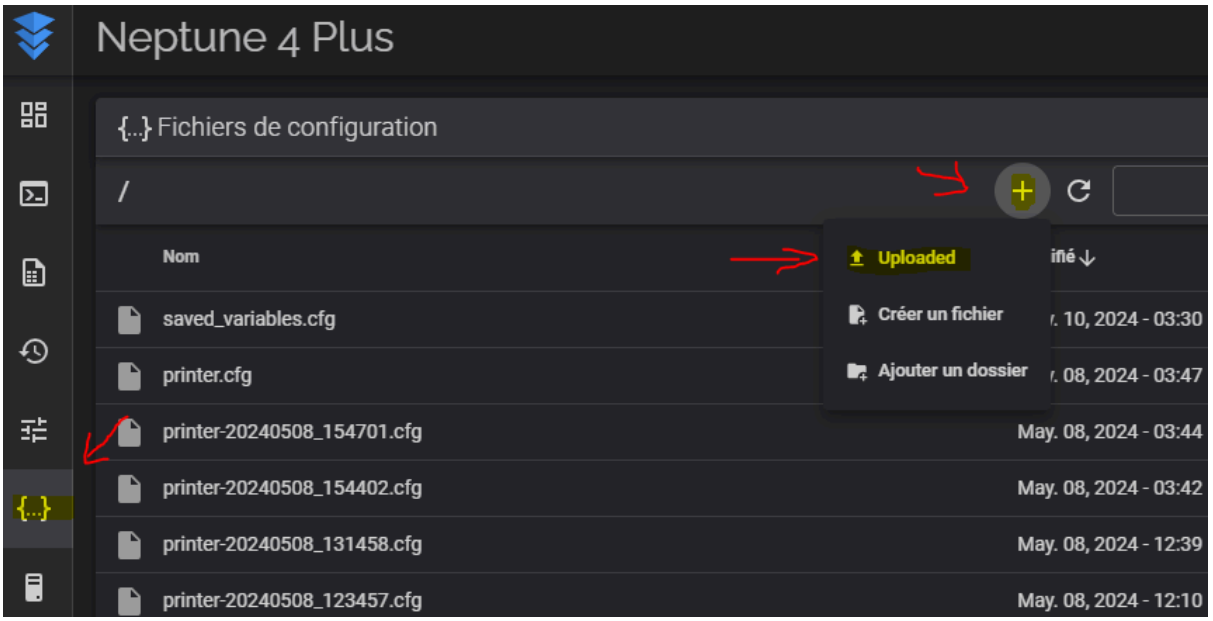
Mes chers camarades bien le bonjour !

Here I will explain to you how to take advantage of the Bed Mesh Area option that comes from this GitHub:

```
https://gist.github.com/ChipCE/95fdbd3c2f3a064397f9610f915f7d02
```

Here is the method to follow:

So you just need to add the **bed_mesh_area.cfg** file in your fluid interface next to your **printer.cfg**



So you go to the **Configuration** tab, you press the little **+** and finally **Uploaded**, there you will select the **bed_mesh_area.cfg** file that you downloaded beforehand!

You have one step left: add the line:

```
[include bed_mesh_area.cfg]
```

printer.cfg

```
913
914
915  ##################################################################
916  #   Bed Mesh Area
917  ##################################################################
918  # All Credit ChipCE : https://gist.github.com/ChipCE/95fdbd3c2f3a064397f9610f915f7d02
919  #
920  # This macro will dynamically changing the bed mesh area based on the size of the parts will be printed.
921  # The fw will only probe on the area that the part will be printed (plus mesh_area_offset value)
922  #
923  # Cette macro modifiera dynamiquement la zone de maillage du lit en fonction de la taille des pièces à imprimer.
924  # Le fw sondera uniquement la zone sur laquelle la pièce sera imprimée (plus la valeur mesh_area_offset)
925  #
926  # Pour que cette macro fonctionne vous devez modifier votre START GCODE (voir dans le dossier de l'imprimante sur mon github):
927  # For this macro to work you need to modify your START GCODE (see in the printer folder on my github):
928  # https://github.com/mairyj/Elegoo-Neptune-4-Series/tree/main
929
     View 'include' documentation
930  [include bed_mesh_area.cfg]
```

I added it for you at the end of printer.cfg you just need to remove the # in front of the line.

Once the line has been added you must **modify your start gcode** with the one that I have made available to you still on my github there is a version with and a version without the bed mesh area and is located in the **folder which corresponds to your printer**:

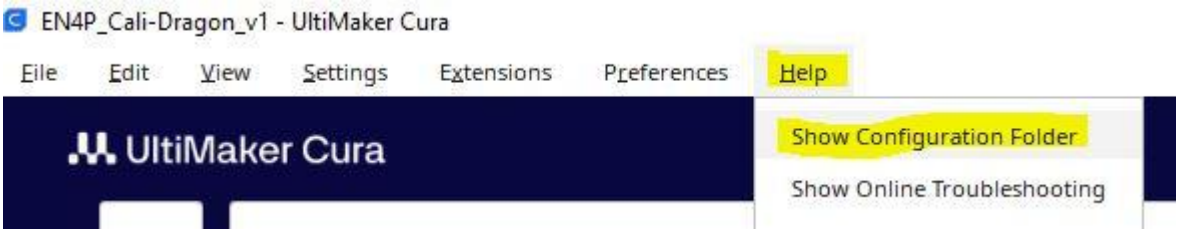
Gcode START and END for Orca.txt

```
1   /!\/!\/!\/!\ Si vous voulez activé le bed mesh area il faut retirer le ; devant la ligne 12 /!\/!\/!\/!\/!\
2   /!\/!\/!\/!\ If you want to activate the bed mesh area you must remove the ; in front of line 12 /!\/!\/!\/!\/!\
3
4   START GCODE
5
6   ;ELEGOO NEPTUNE 4/4Pro
7   M220 S100 ;Set the feed speed to 100%
8   M221 S100 ;Set the flow rate to 100%
9   M140 s[first_layer_bed_temperature]
10  G90
11  G28 ;home
12  ;BED_MESH_CALIBRATE AREA_START={first_layer_print_min[0]},{first_layer_print_min[1]} AREA_END={first_layer_print_max[0]},{first_layer_print_max[1]}
13  M104 s[first_layer_temperature]
14  G92 E0 ;Reset Extruder
```

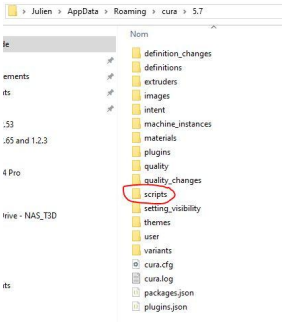
You can now enjoy the bed mesh area!!

ATTENTION for CURA there is a manipulation to be done before!

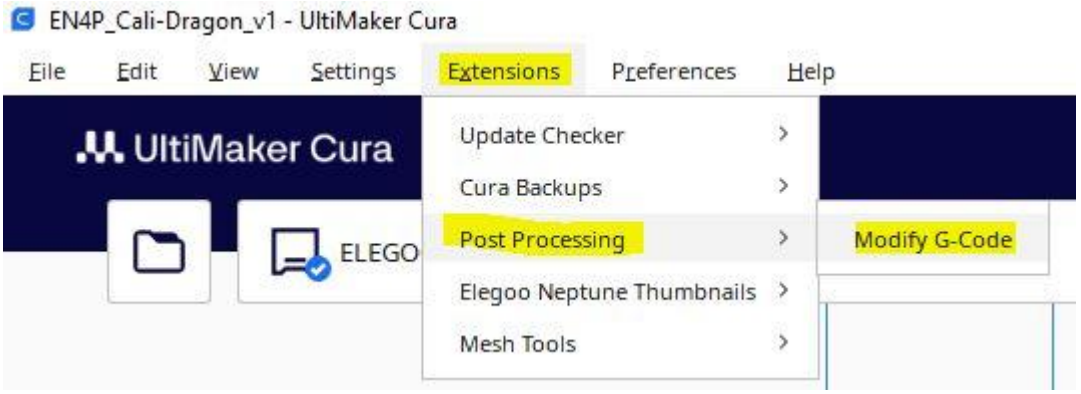
You will need to download the **MeshPrintSize.py** file which you will find in the same folder as this tutorial. You will have to put it in the cura scripts folder. To find this folder, in cura you go to **help** then **show configuration floder**



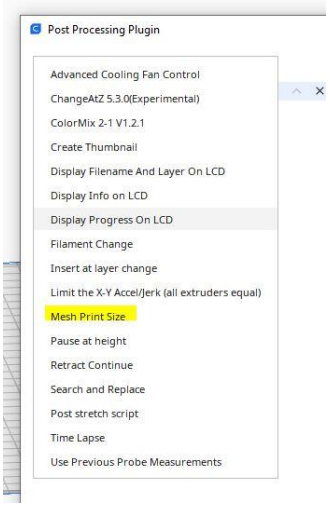
ensuite aller mettre le fichier **MeshPrintSize.py** dans le dossier scripts :



Once the Add Scripts close cura and restart it, you then go to **Extension->Post Processing->Modify G-code**



A window opens and you will click on the Add scripts button and select the **Mesh Print Size** script, close the window and can finally benefit from the bed mesh area under cura.



ATTENTION you must also change the start gcode for cura ;-)
(python scripts found thanks to **Ze Us**, whom I thank, referring to the **Tom's Basement** video: https://www.youtube.com/watch?v=fhfAhPH-y7M , the origin of the scripts is here: gist.github.com/frankbags/c85d37d9faff7bce67b6d18ec4e716ff#file-meshprintsize-py , I just adapted part of the script to fit our macro correctly.)

Crédit :
Julien Mairy / Printer'n Beer / SmartHome42

Youtube : https://www.youtube.com/@printernbeer
Page facebook : https://www.facebook.com/Smarthome42
Groupe facebook où je suis actif :
https://www.facebook.com/groups/impressions3dfr
https://www.facebook.com/groups/elegooneptunefr
Github : https://github.com/mairyj/Elegoo-Neptune-4-Series
Instagram : https://www.instagram.com/mairyjulien/
TikTok : https://www.tiktok.com/@julienmairy
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