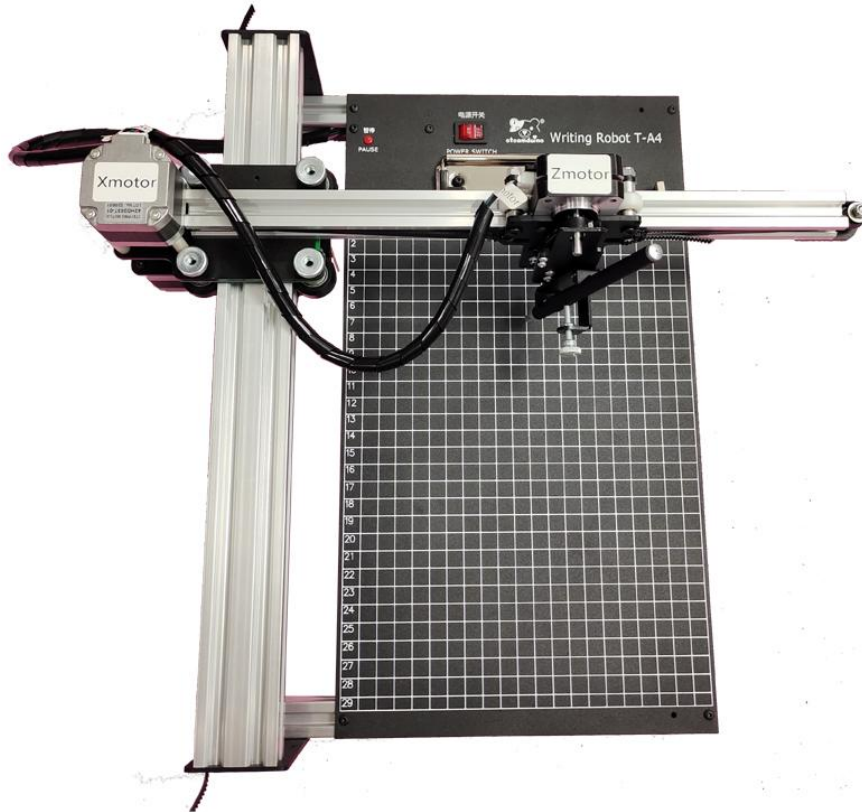# iDraw 2.0 Plotter Software User Manual V1.7

Introduction:

iDraw 2.0 Pen plotter is high performance drawing and writing machines. For tech support, part support and anything else, please reach out to us at uunatek@gmail.com.

User Guide

Models

iDraw2.0 H-Structure A3 Machine

iDraw2.0 T-Structure A3 Machine

iDraw2.0 T-Structure A4 Machine

Contents

1.Easy Assembling
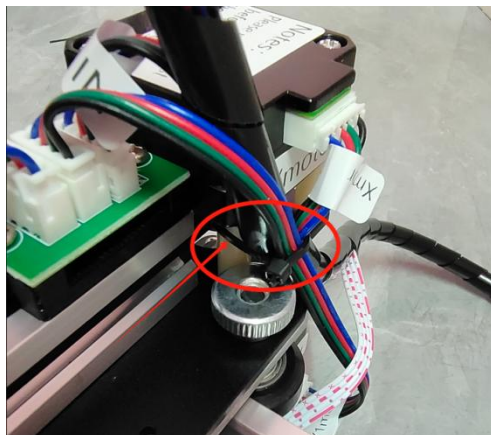
1. 1 Check the assemble video for easy assembling

To assemble the machine, please refer to the video in the ==Assembly video== directory, unboxing video.
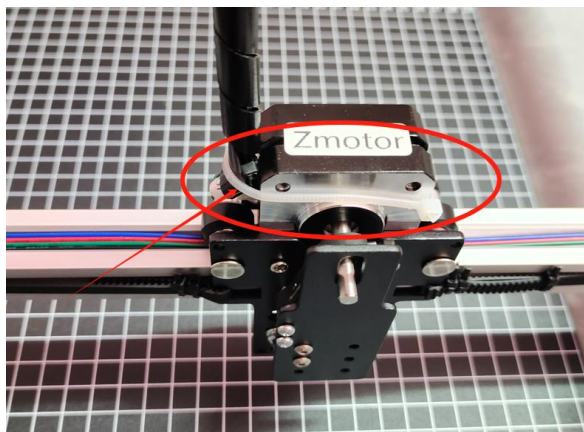

1.2 Organize cables.

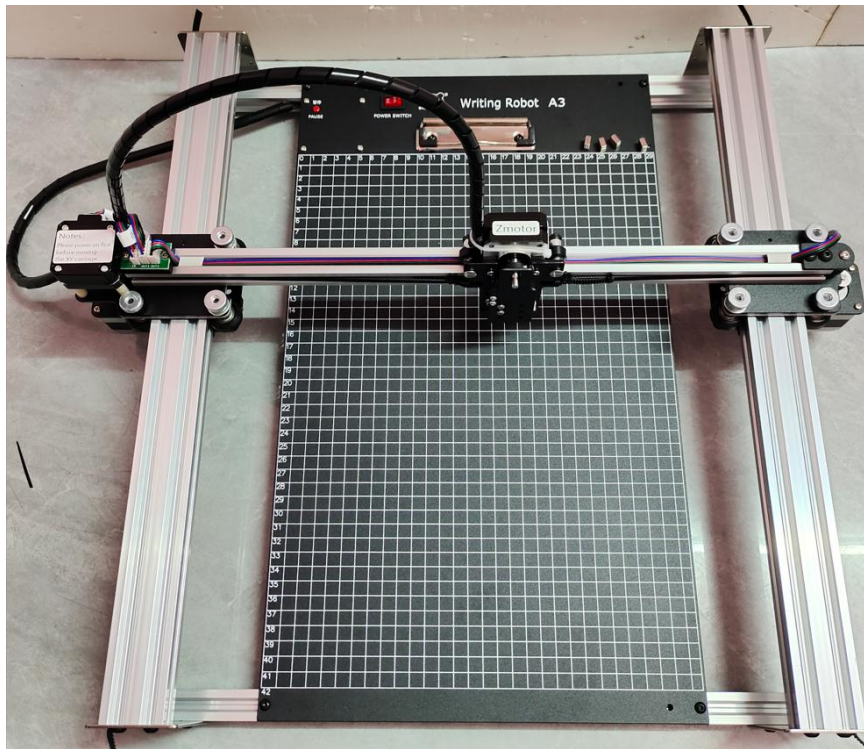==IMPORTANT: Use cable zip ties to hold the cables in place so that the motor wires are not damaged.==

Use cable zip ties to secure the cables to the ABS Round Spacer at the bottom of the X motors.

First, stand up the Z motor cable, and then use the cable zip tie to tie the Z motor cable to the Z motor.
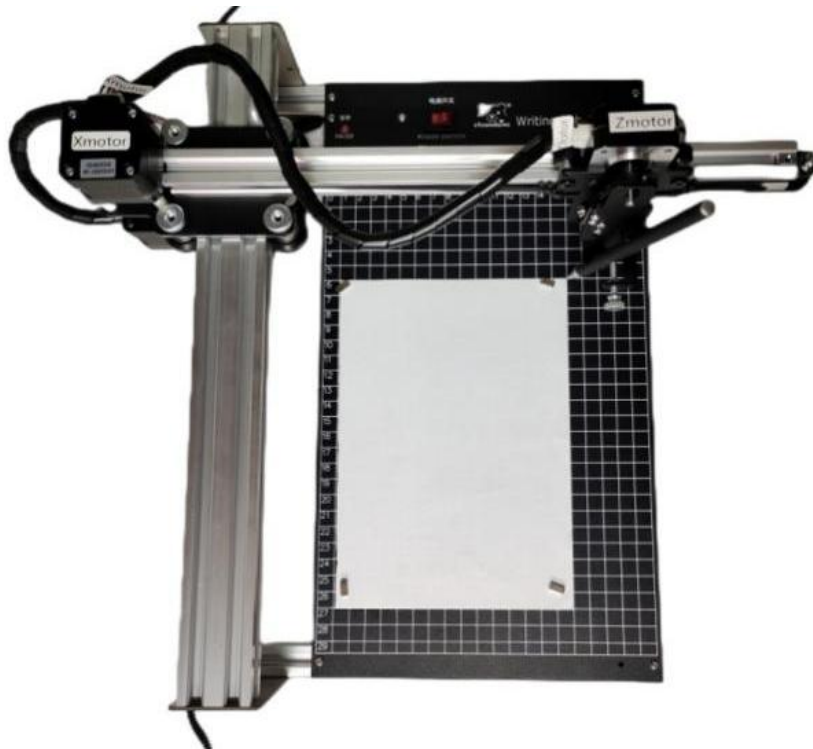
Cables organized

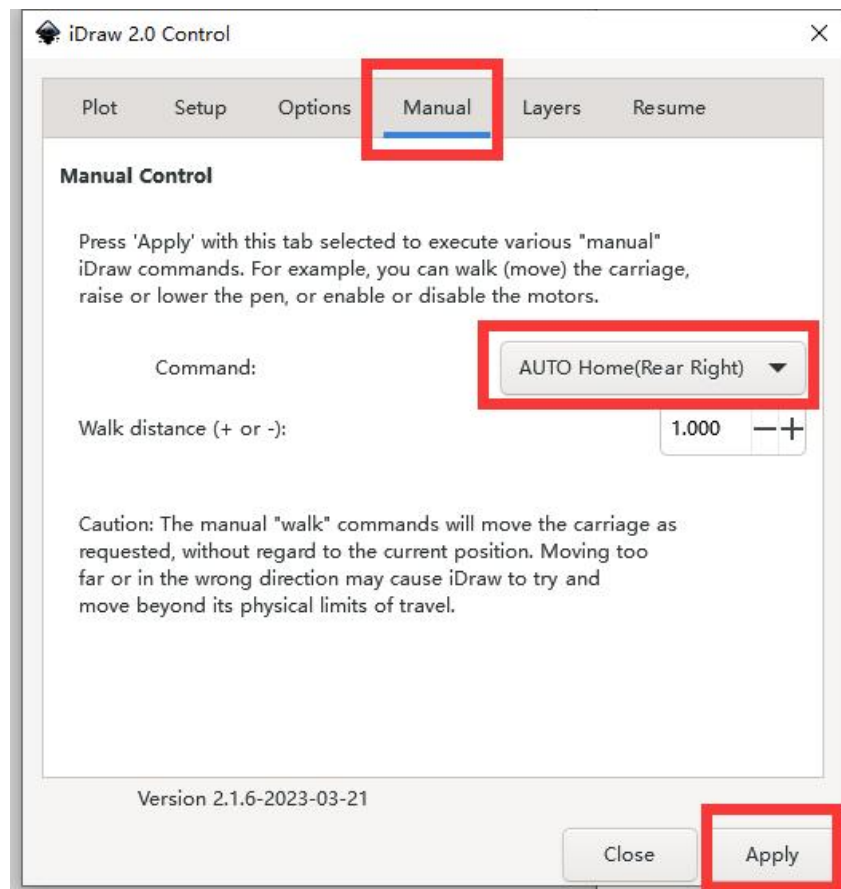### *1. 3* **Move to the Home Corner.**

The default home corner is in the rear right corner , it is necessary to move the carriage to the **Home Corner**. This is where the carriage is as far right and as far back as it can go.

If the paper is relatively small, you can move the carriage to reach the upper right corner of the paper.

The iDraw 2.0 machine is equipped with two contact switches that allow the carriage to automatically move to the home corner.
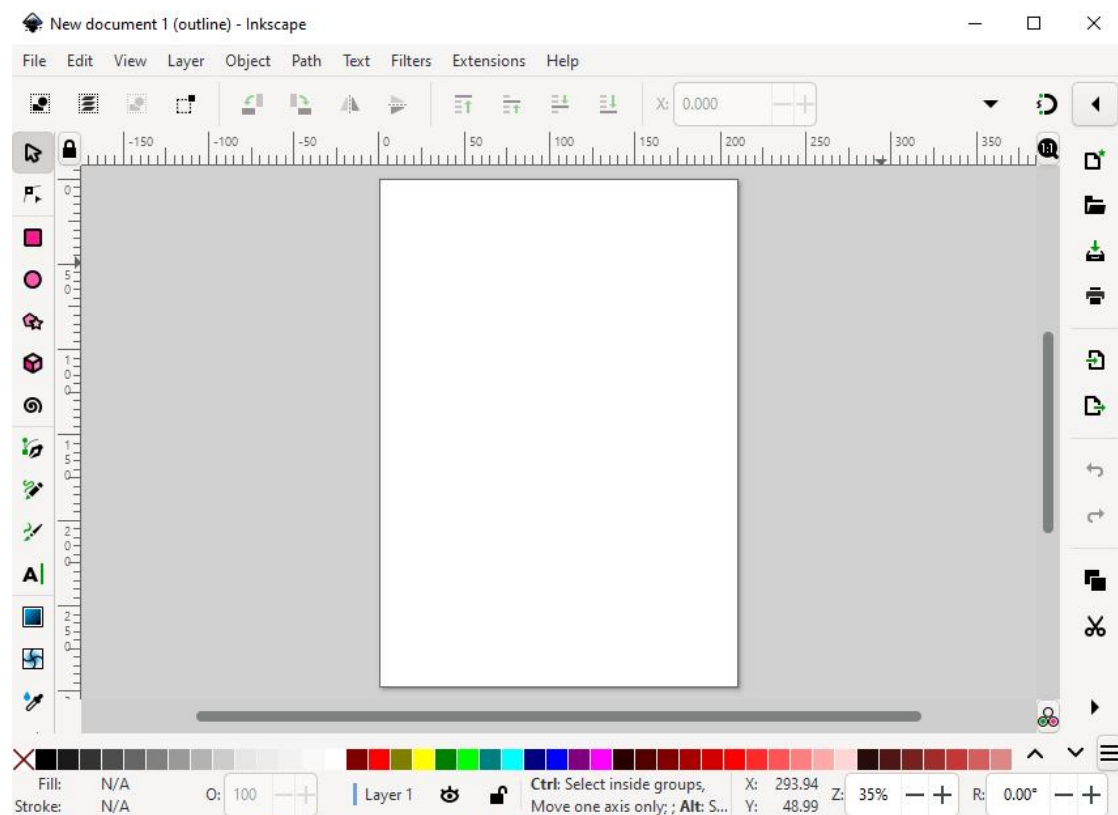
2.software operation

2.1 Software Installation

Please refer to the installation manual under the software directory for software installation
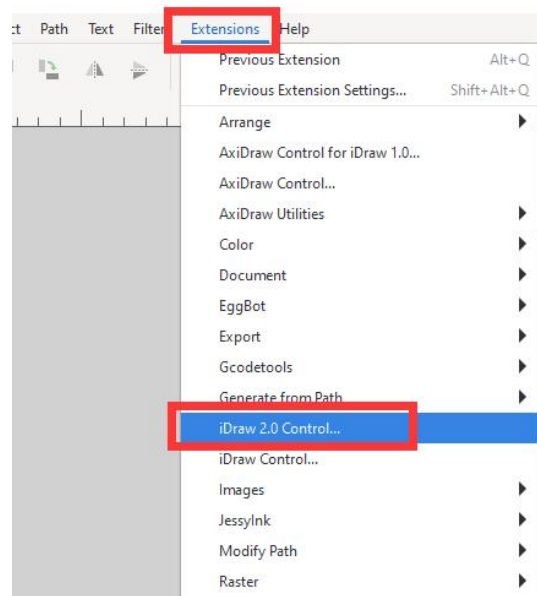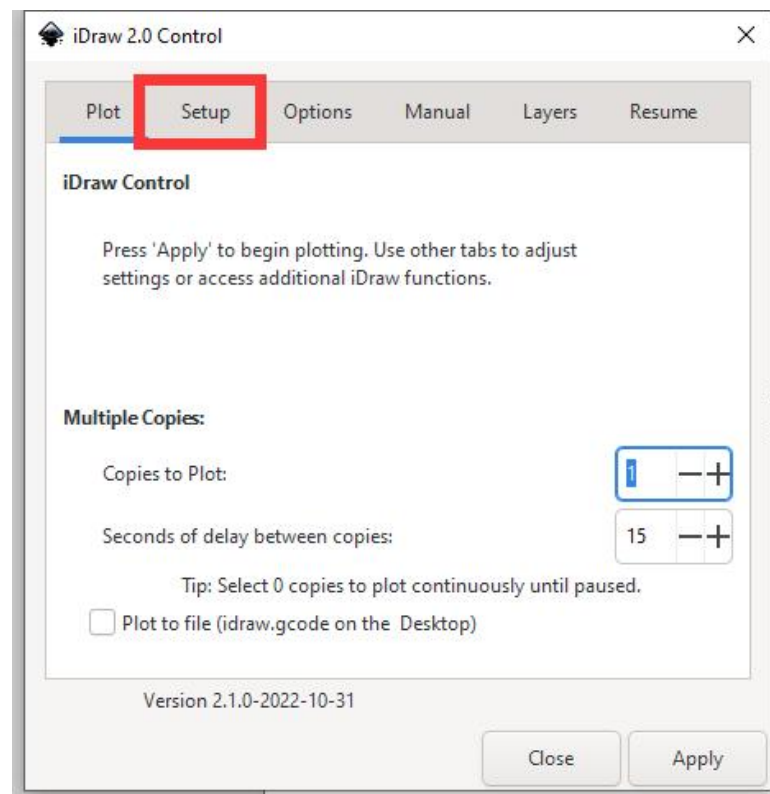
2.2 Pen up and down test

Step1. Open "Inkscape".
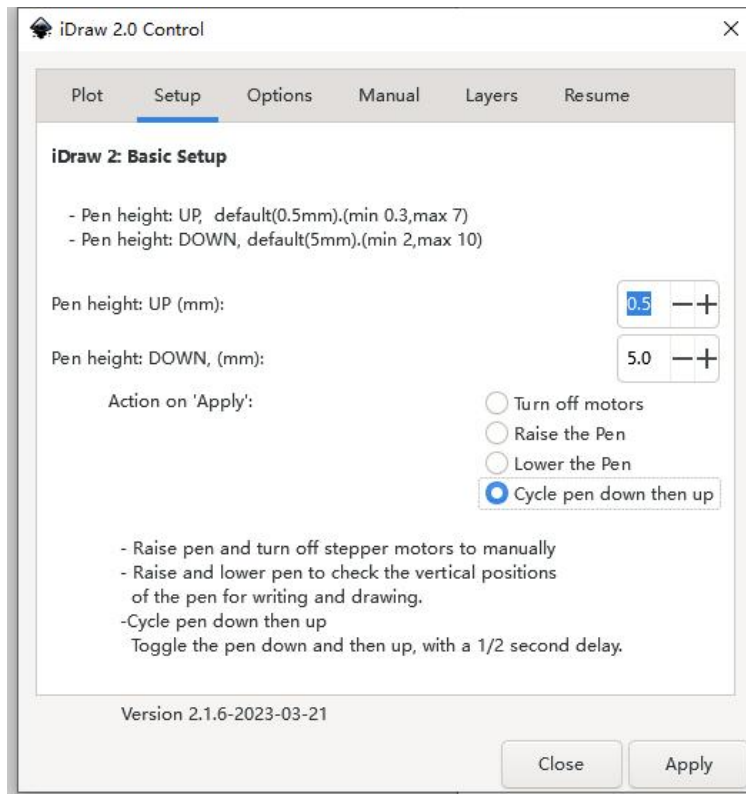

software interface as below：

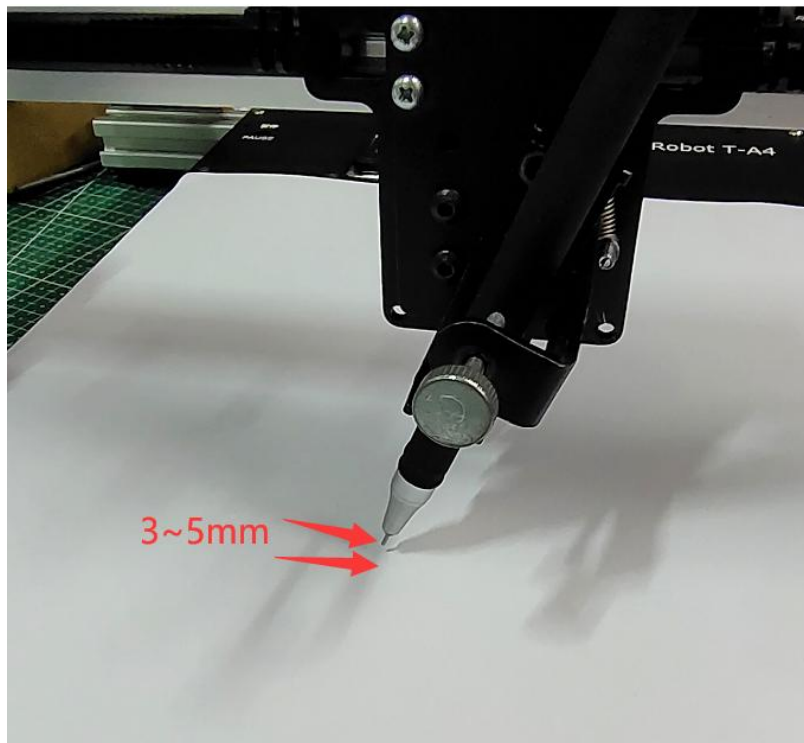*Step 2*. Click "Extensions" - "iDraw 2.0 Control".

Step 3. The interface as below, then click "Setup".

Step 4. Data as the following should be "0.5" and "5" after clicking "setup", or you can adjust them within *a small range（up: 0.5~5; down: 3~9）*. Then Click "Apply" several times, the pen holder will go up and down.
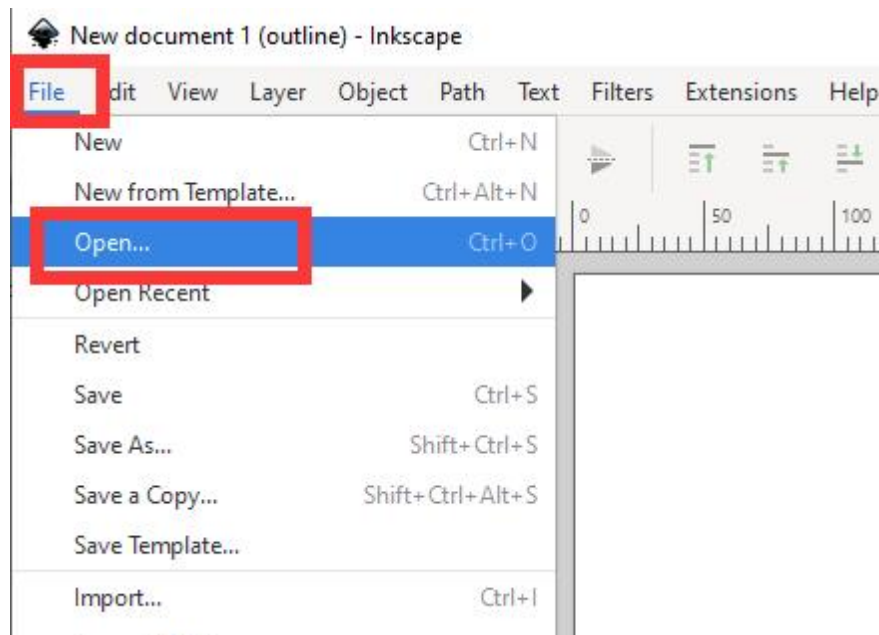

Adjust the height of the pen according to the actual situation. Make sure that the distance between pen head and paper is **3~5mm** when the pen is in the Up situation.
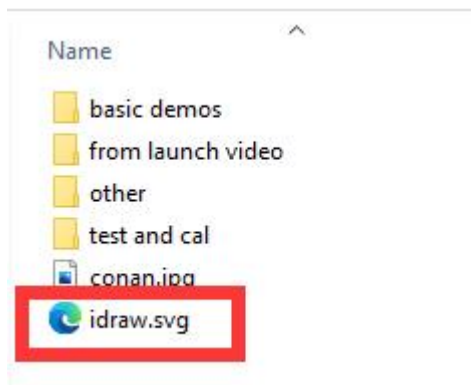
2.3 Make your first plot
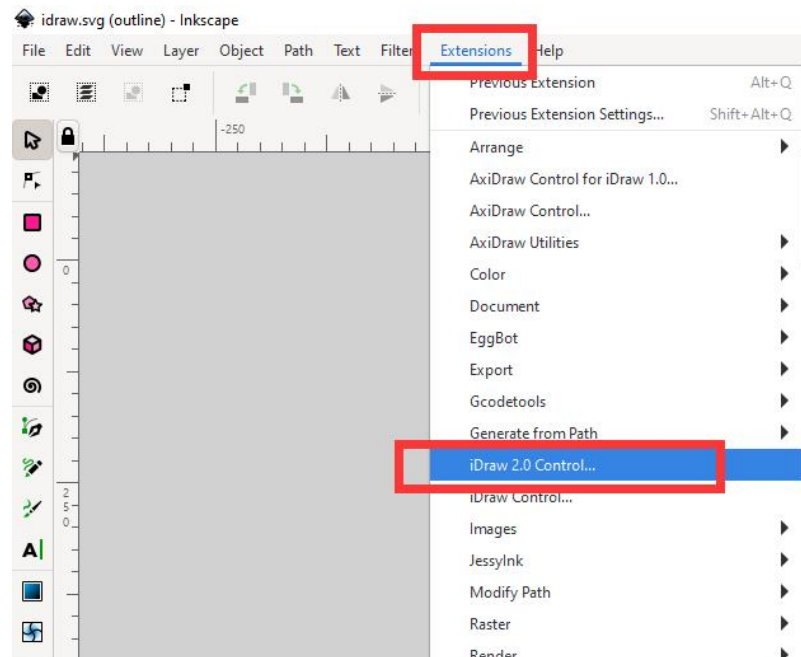
Step 1. Click "File" - "Open".

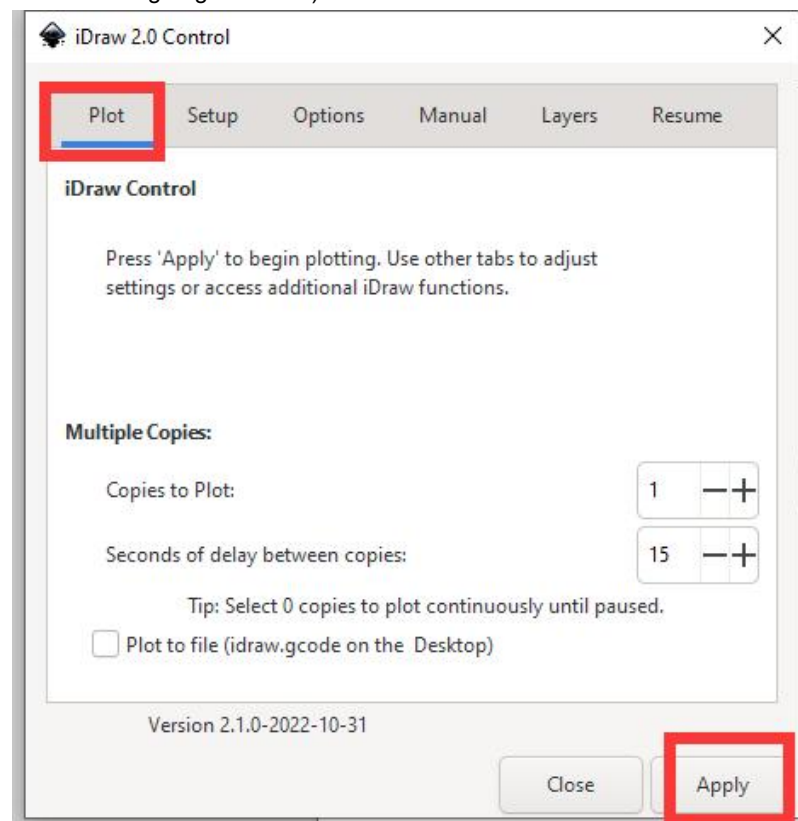*Step 2*. Choose the file idraw.svg in "Examples"folder.

Interface as below：

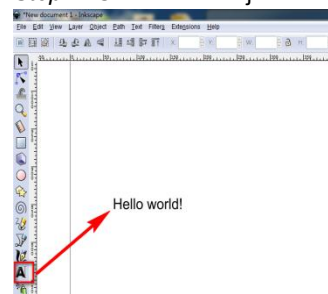*Step 3*. Click "Extensions" - "iDraw2.0 Control".

Step 4. Choose "Plot" and click "Apply" to start. (Please move the carriage to the home corner manually before starting to get it work.)
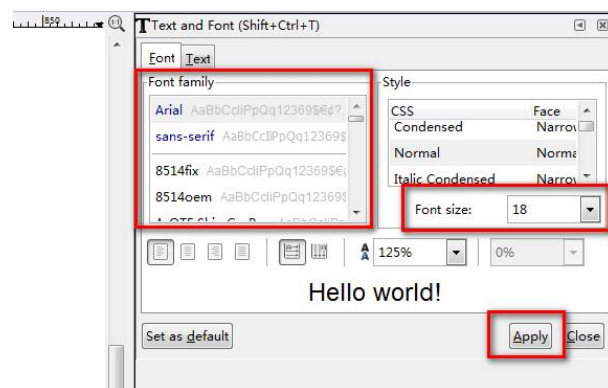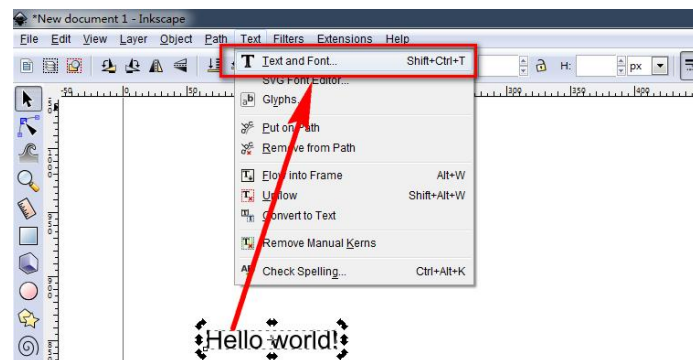

Step 5. You could also try other examples.
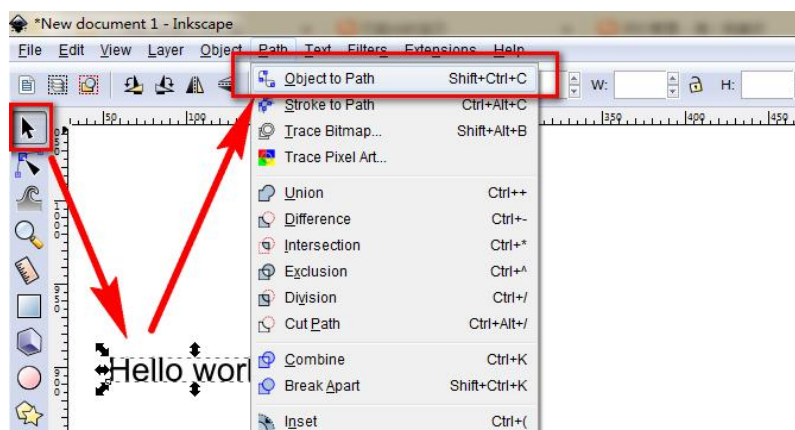
2.4 Input your own text
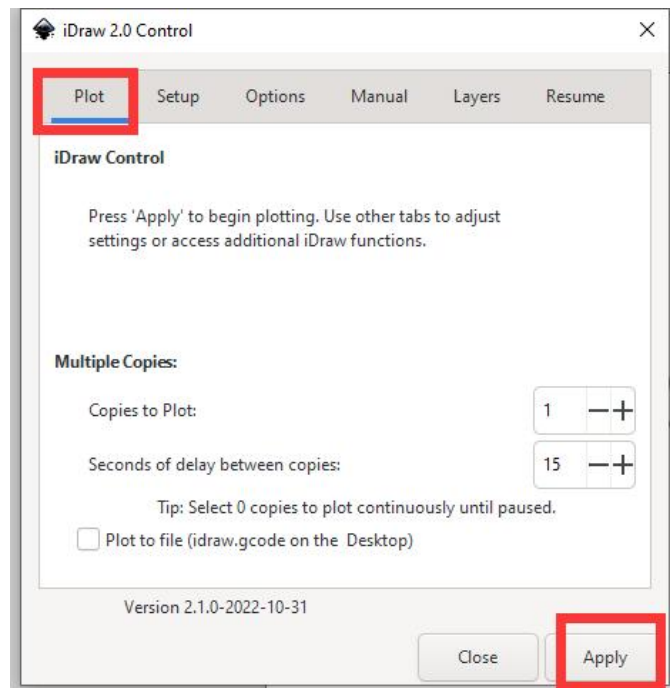
Step 1. Create text objects.
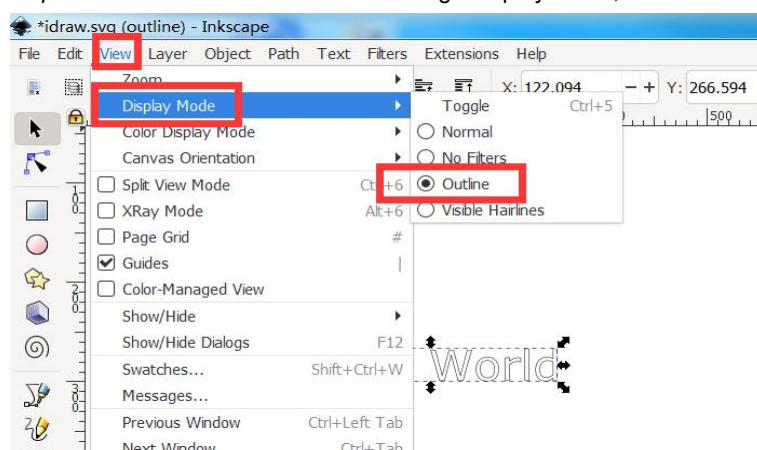

Step 2. Selected textSet up the font and size.

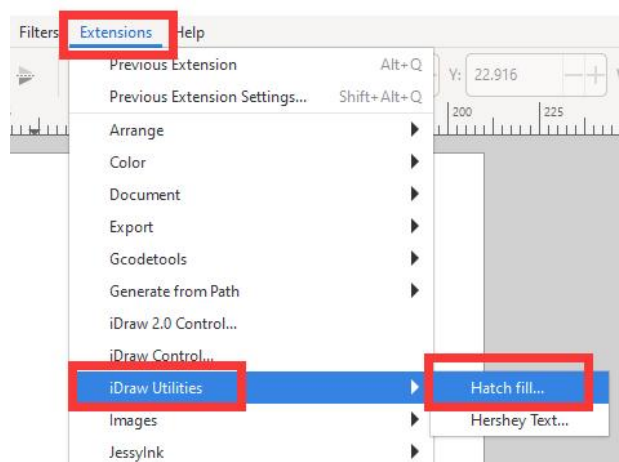

Step 3. Transform object to path.

Step 4. Click "Extensions" - "iDraw2.0 Control". Choose "Plot" option. Then click "Apply" to get it to work.
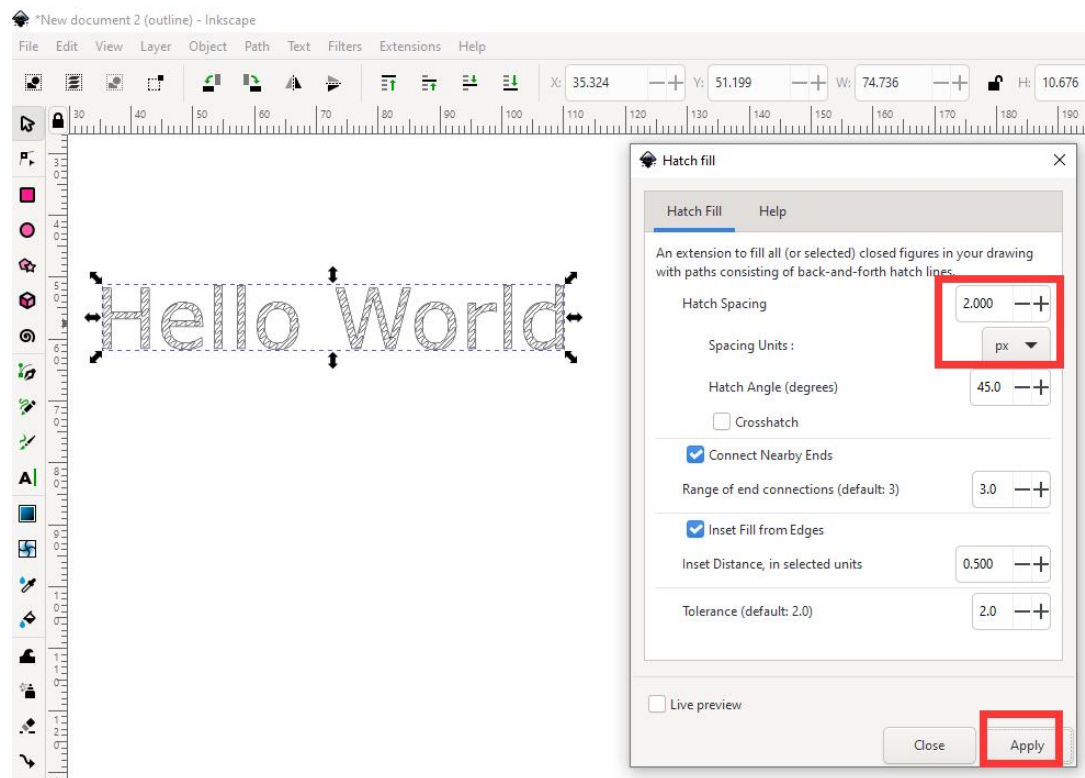

Step 5. You can also hatch fill. First change display mode, select Outline mode.
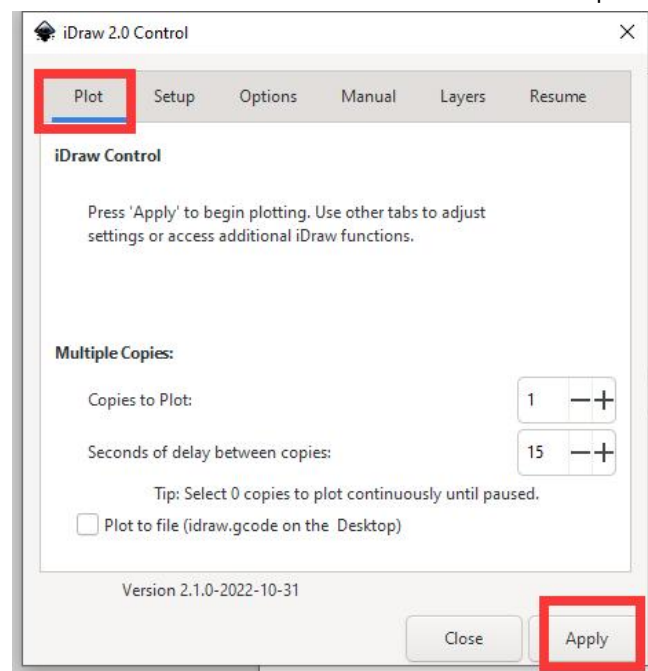

Then click "Extensions" - "iDraw Utilities" – "Hatch fill".
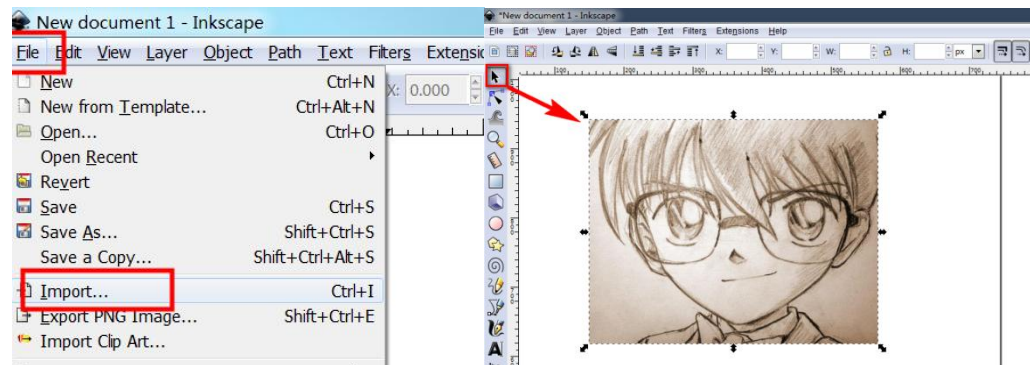
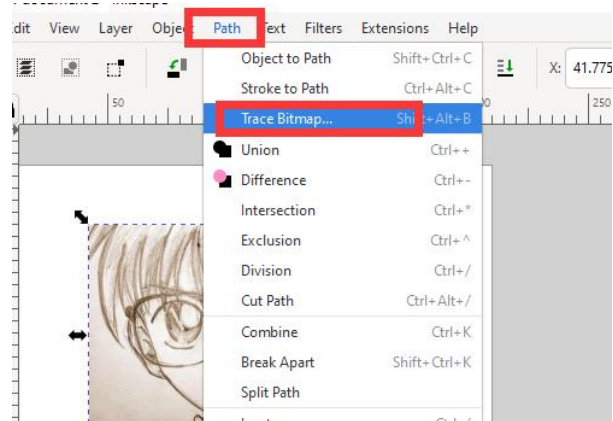Click "Extensions" - "iDraw2.0 Control". Choose "Plot" option. Then click "Apply" to get it to work.
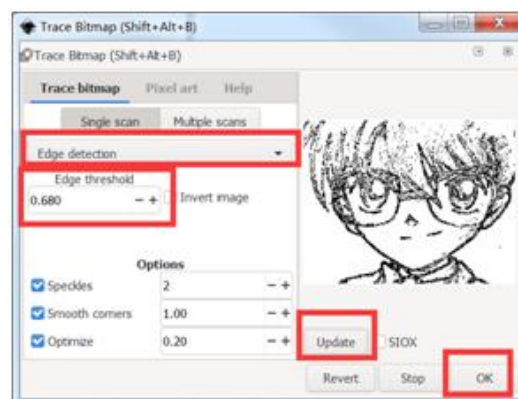
2.5 Plot an image

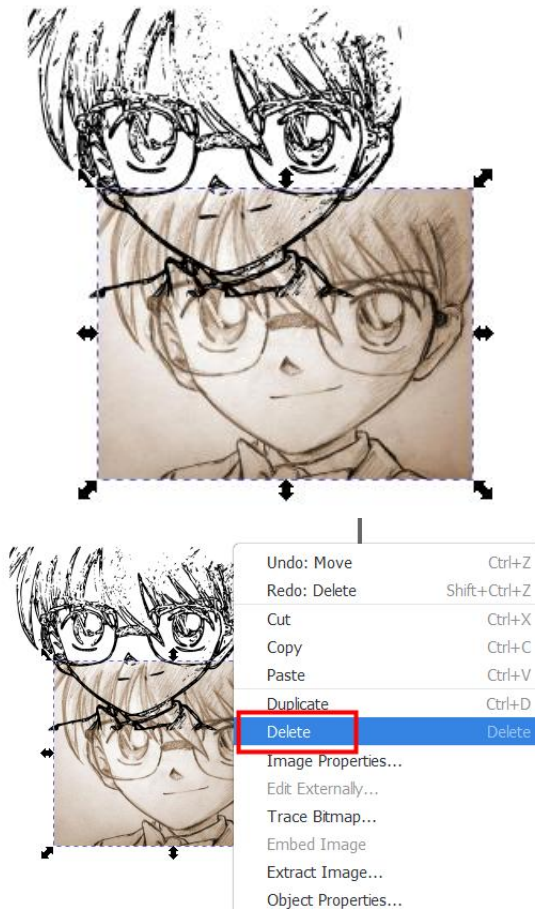*Step 1*. Drag the image to Inkscape, or Click "File"to import image to Inkscape, you can change its size as bellow.
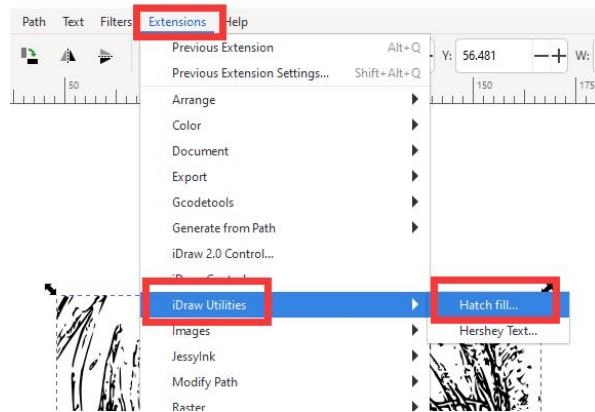

Step 2. Click "Path" – "Trace Bitmap".

Step 3. Change the parameter and click "Update" until the picture is shown clearly. Finally, click "OK".
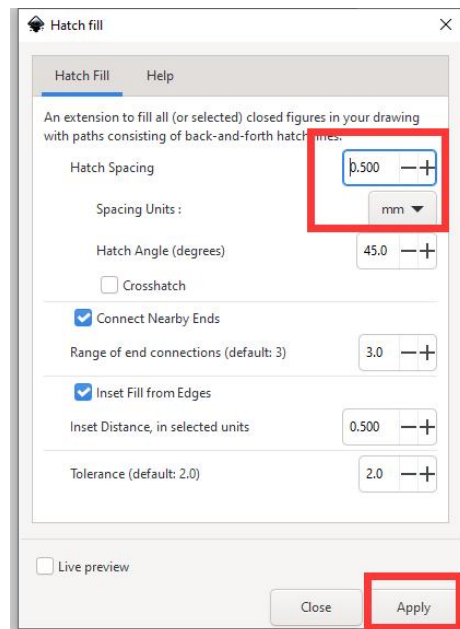
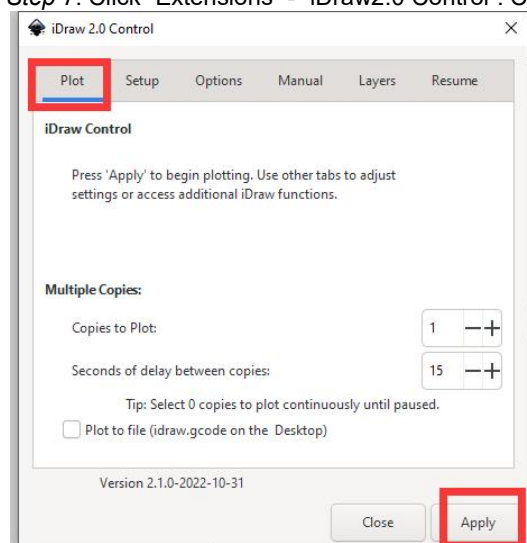*Step 4*. Drag out the generated vector-graph and delete original bitmap.

Undo: Move	Ctrl+Z
Redo: Delete	Shift+Ctrl+Z
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
Duplicate	Ctrl+D
Delete	Delete
Image Properties...	
Edit Externally...	
Trace Bitmap...	
Embed Image	
Extract Image...	
Object Properties...	

Step 5. Filling in areas with paths. Click "Extensions" - "iDraw Utilities" – "Hatch fill".

Step 6. Change the parameter. A lower spacing will produce a more uniform fill, and a higher spacing will produce a more traditional hatch fill for shading.
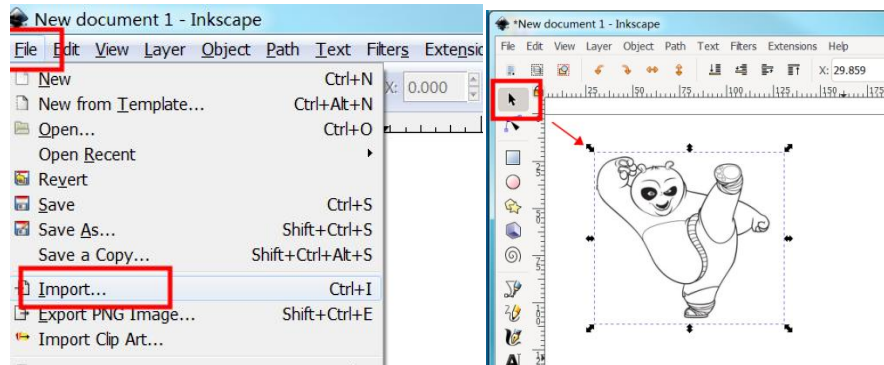

Step 7. Click "Extensions" - "iDraw2.0 Control". Choose Plot option. Then click "Apply" to get it to work.
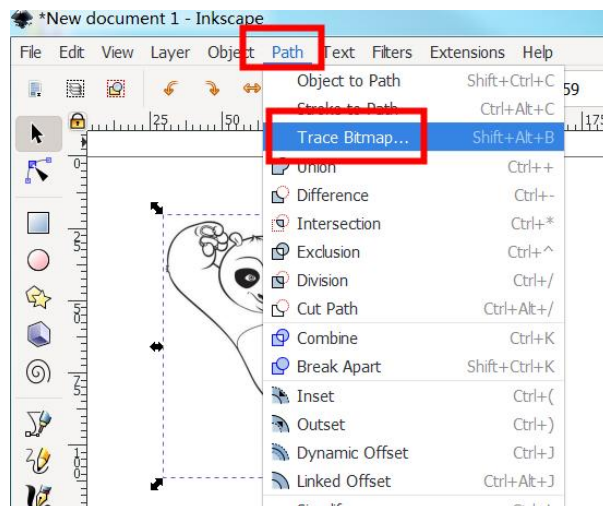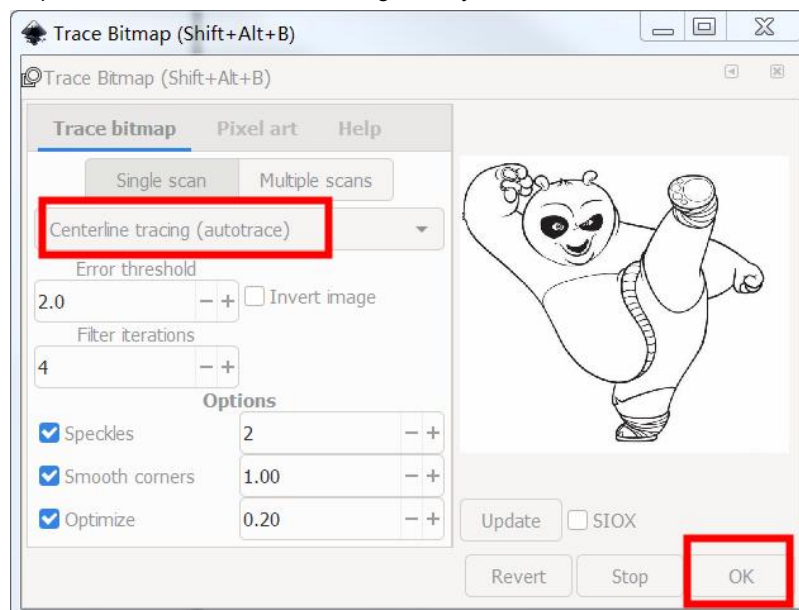
2.6 Plot an centerline image

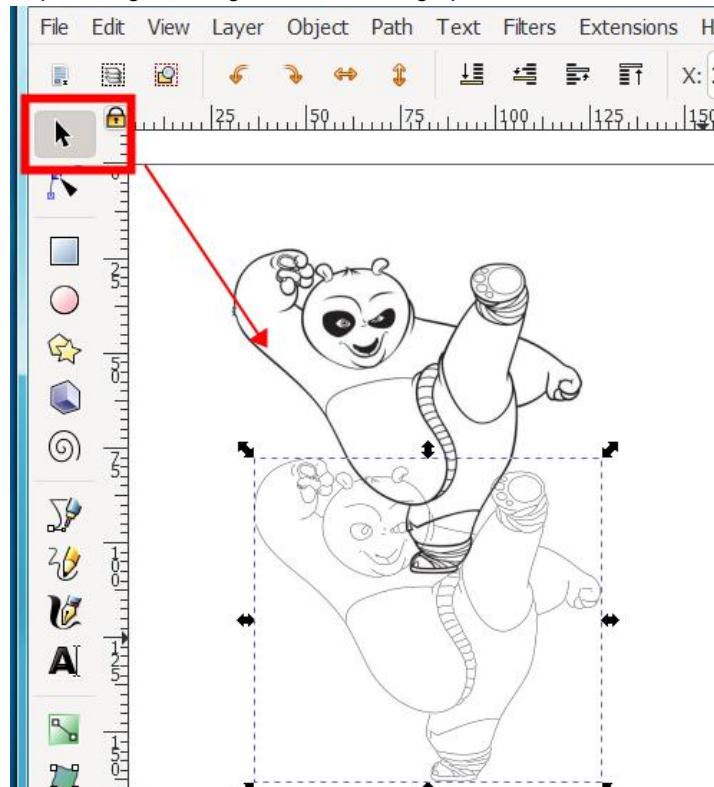*Step 1*. Drag the image to Inkscape, or Click "File"to import image to Inkscape, you can change its size as bellow.

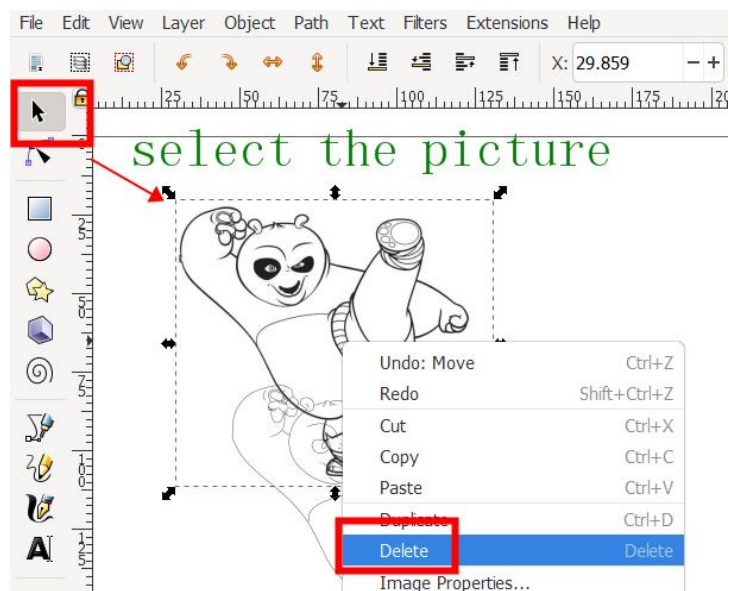*Step 2*. Select the image and click "Path" – "Trace Bitmap".

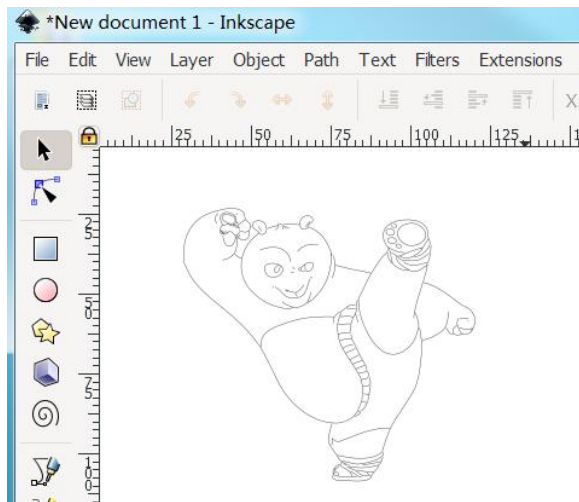*Step 3*. Select the Centerline tracing. Finally, click "OK".

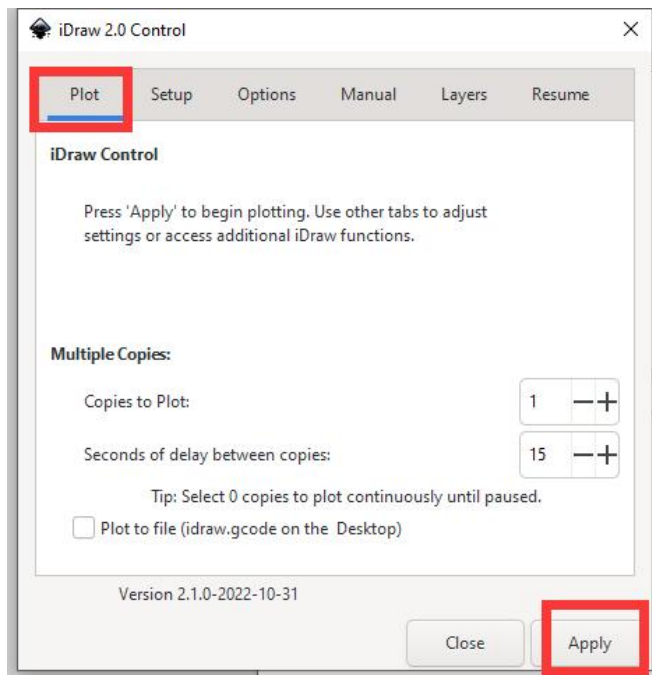*Step 4.* Drag out the generated vector-graph..

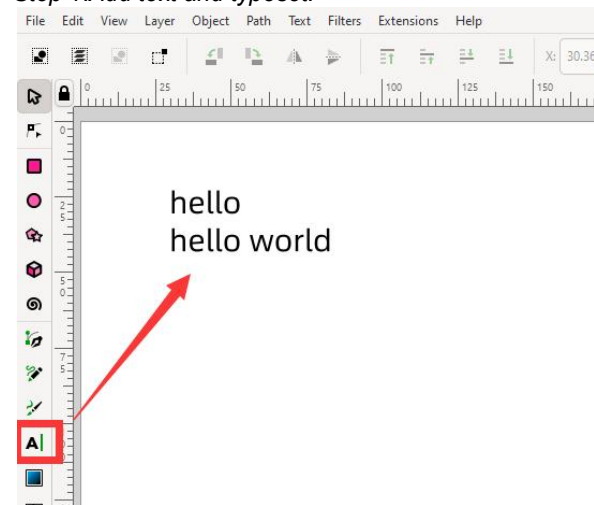

Step 5.,Delete the original image

Interface as below

Step 6. Click "Extensions" - "iDraw 2.0Control". Choose Plot option. Then click "Apply" to get it to work.
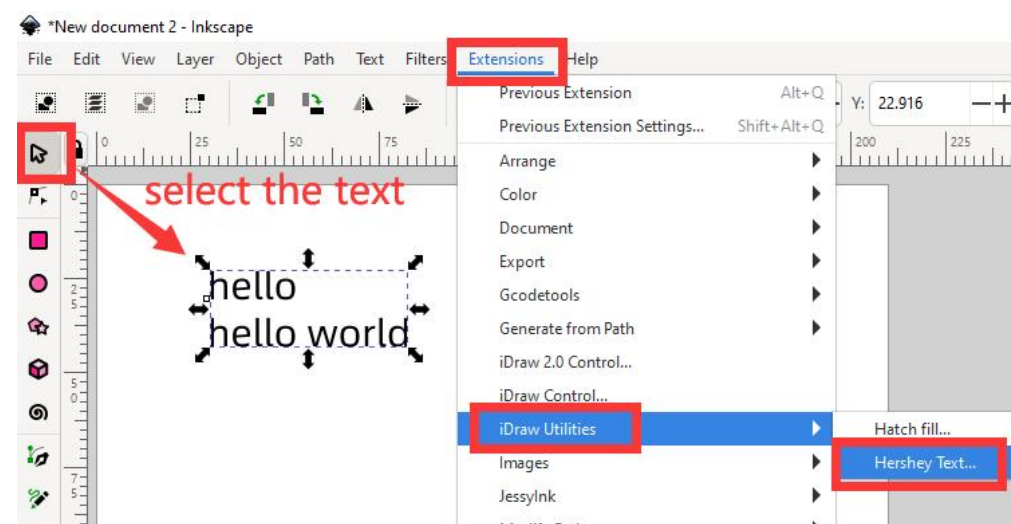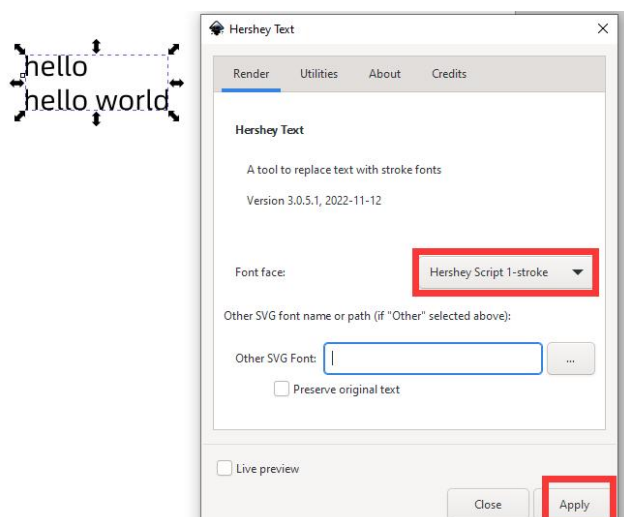
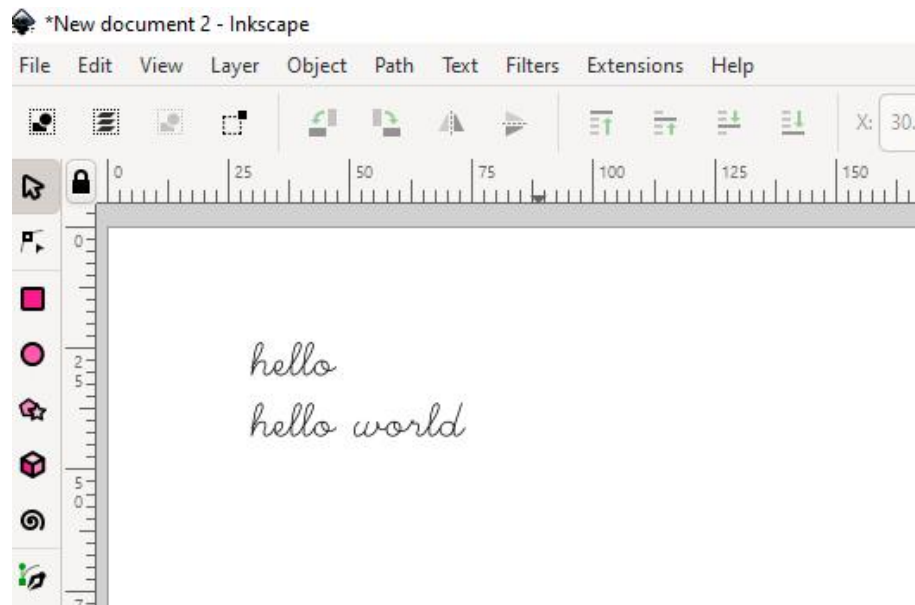## 2.7 Single stroke font "Hershey"

Step 1.Add text and typeset.

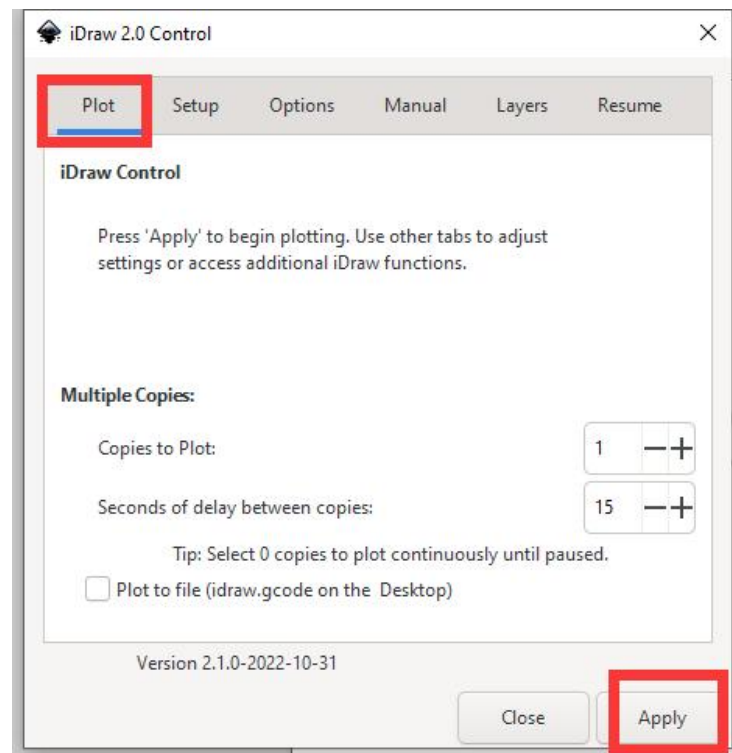*Step 2.* Selected text .and click "Extensions" - "iDraw Utilities" - "Hershey Text".

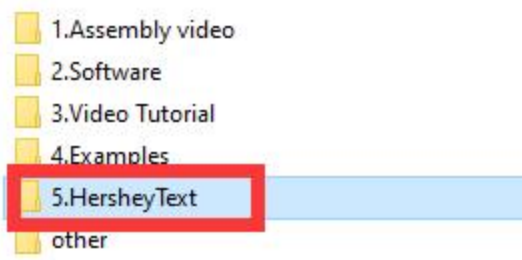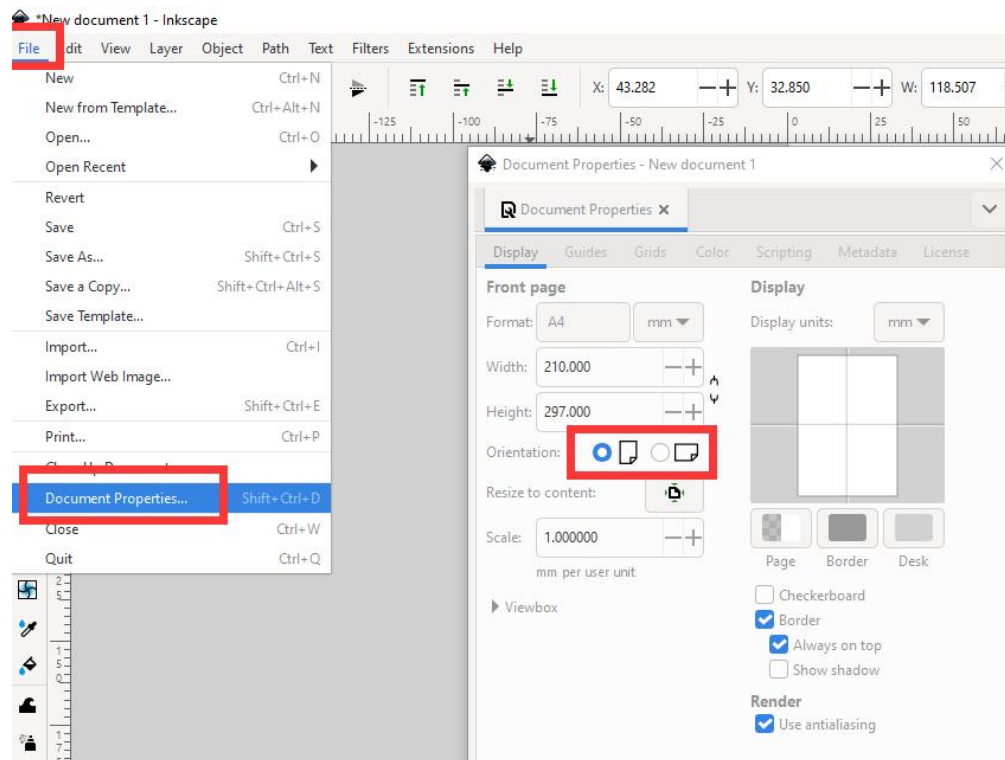*Step 3.*Select the Font, and click "Apply".

Step 4. Click "Extensions" - "iDraw2.0 Control". Choose Plot option. Then click "Apply" to get it to work.

For more information, see the documents under HersheyText
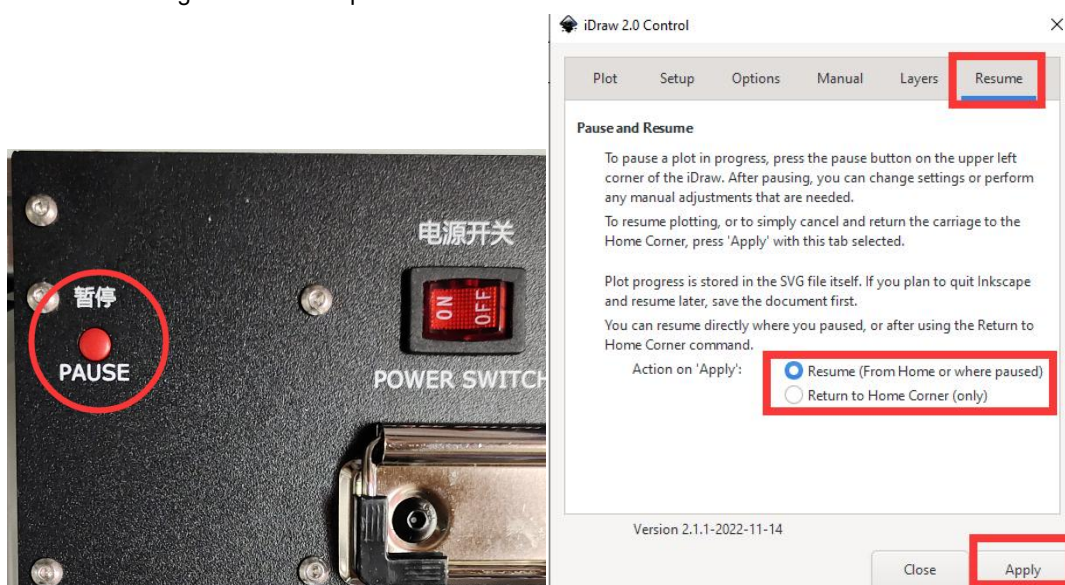
2.8 Change Portrait or Landscape to Write

2.9 Temporary Stop

When the XY Pen plotter is working and you want to stop it, please press PAUSE button on main board to temporarily stop it.
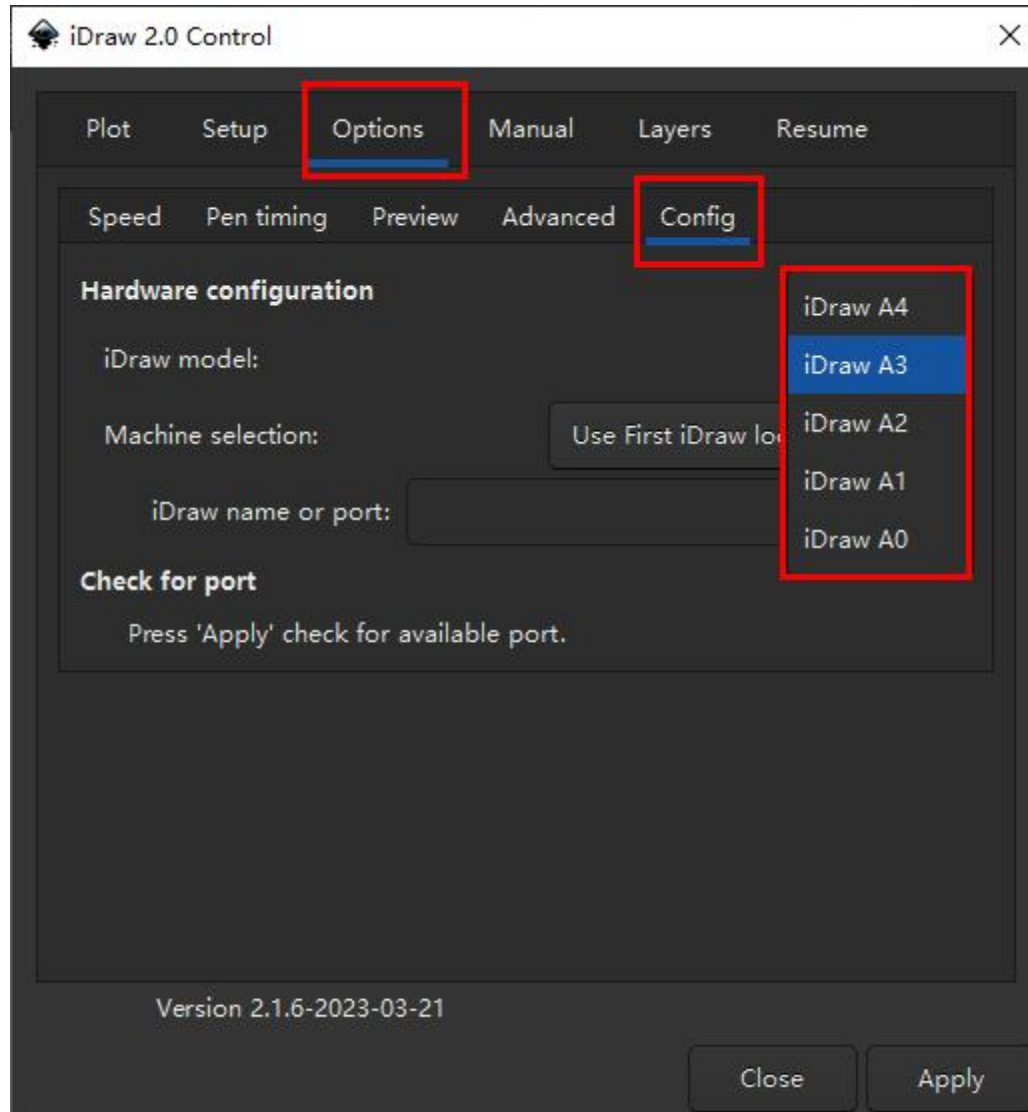
To resume writing at "Resume" option.

2.10 How to select iDraw model

The default iDraw model is iDraw A4, if you use a larger range of machines, you can redo other models.

Choose "Options",click "Config" ,select the iDraw model.

3.Service, and parts support

The iDraw is designed to be serviceable, and we are here to help. Please contact technical support directly if you need assistance with troubleshooting or repairing a mechanical issue. Technical support uunatek@gmail.com.