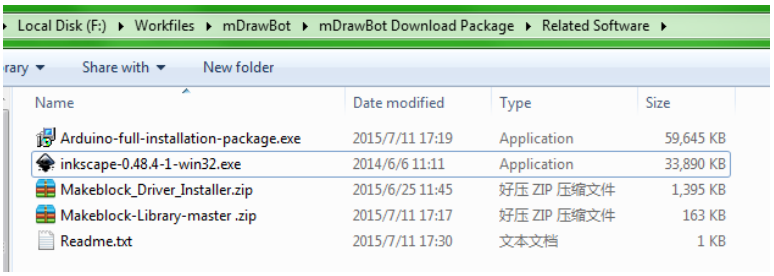
How to use inkscape +CorelDraw software

mDraw is open source software developed by makeblock based on open source protocol mDrawBot. The supported file format is Plain SVG format based open source software inkscape Learn the usage of the basic functions of inkscape to better use the mDraw.

Inkscape is open source vector-graph authoring software developed by foreign country and slimier with the mainstream commercial vector-graph authoring software. Inkscape is cross-platform application program, and uses such operating system as Windows, Mac OS X, Linux and UNIX

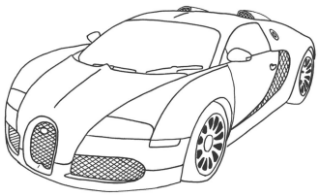
1. Properly install Inkscape（https://inkscape.org/en/）



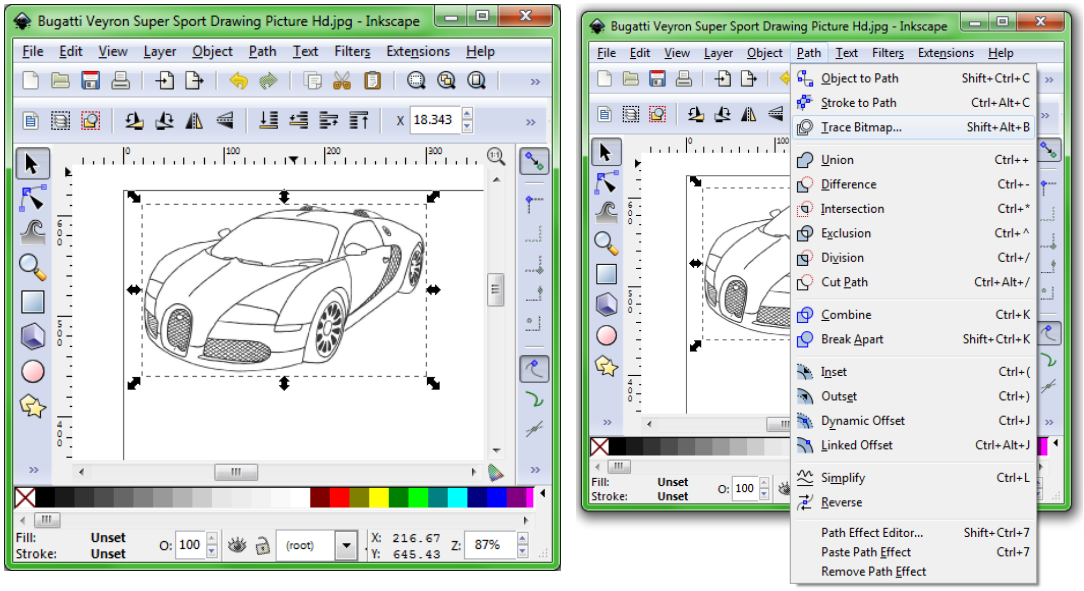
2. You can direct create vector-graph on Inkscape or download or open other vector formats such as *.dxf，*.cdr (please save the following format below 11.0), and then open and change it to Plain SVG format by inkscape. Of course, the bitmap may be used to change the e vector-graph with SVG format, for example:

I、Directly change the bitmap to SVG graph.

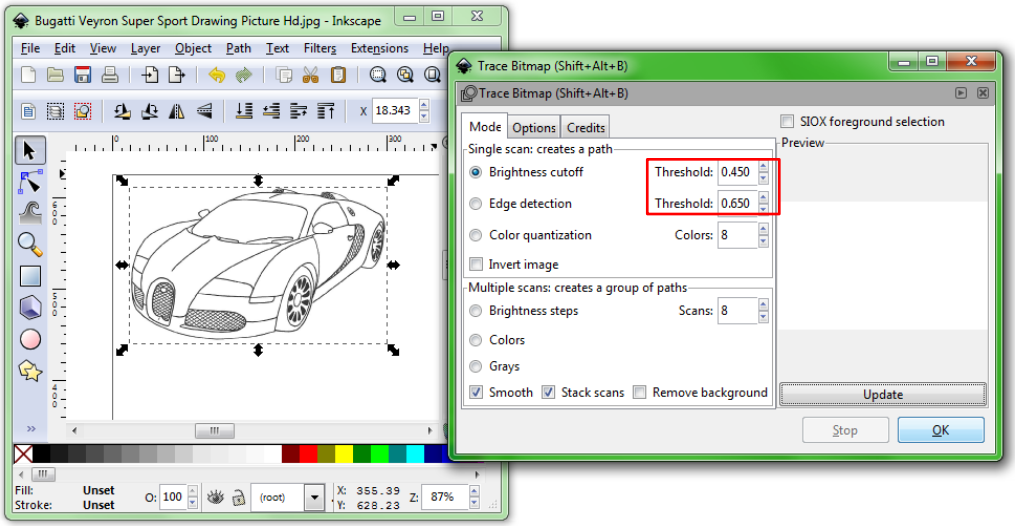
1. Had better to select sketch as bitmap, exampled as shown in the following figure. (Address: …\mDrawBot Download Package\Examples of Material\BMP Example\Bugatti.bmp)



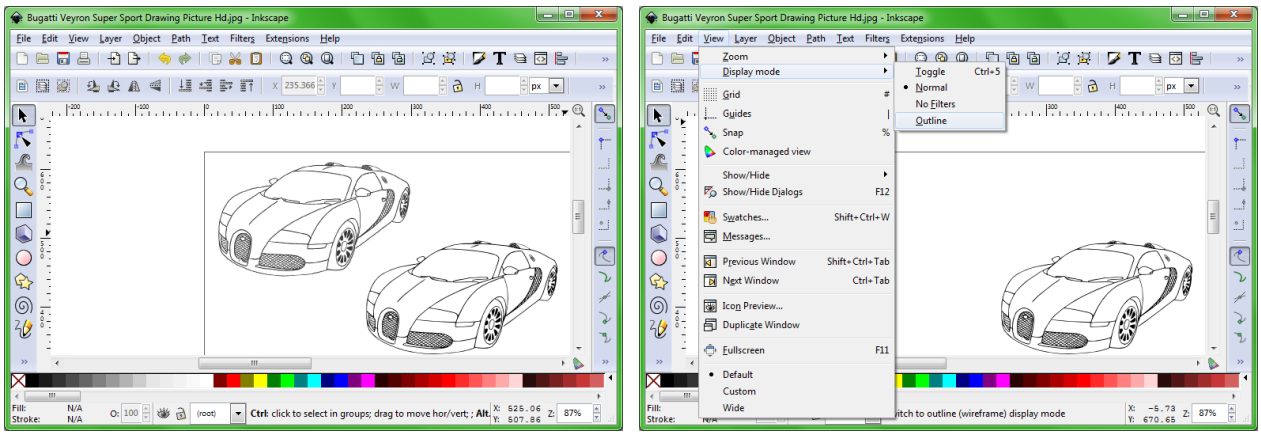
2. Open the bitmap by the inkscape, select the graph, and access the bitmap in the route to change the route.



3. Change the parameters in the box, and click Update and click OK.

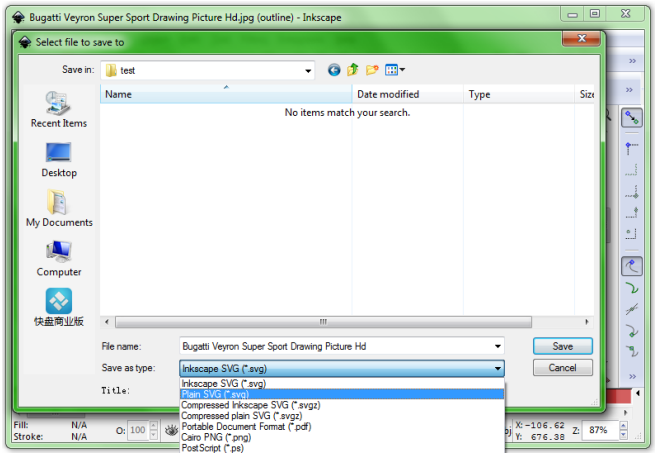


4. Drag out the generated vector-graph while selecting view and display the wireframe mode from the modes. View change effect. If Ok, delete original bitmap.

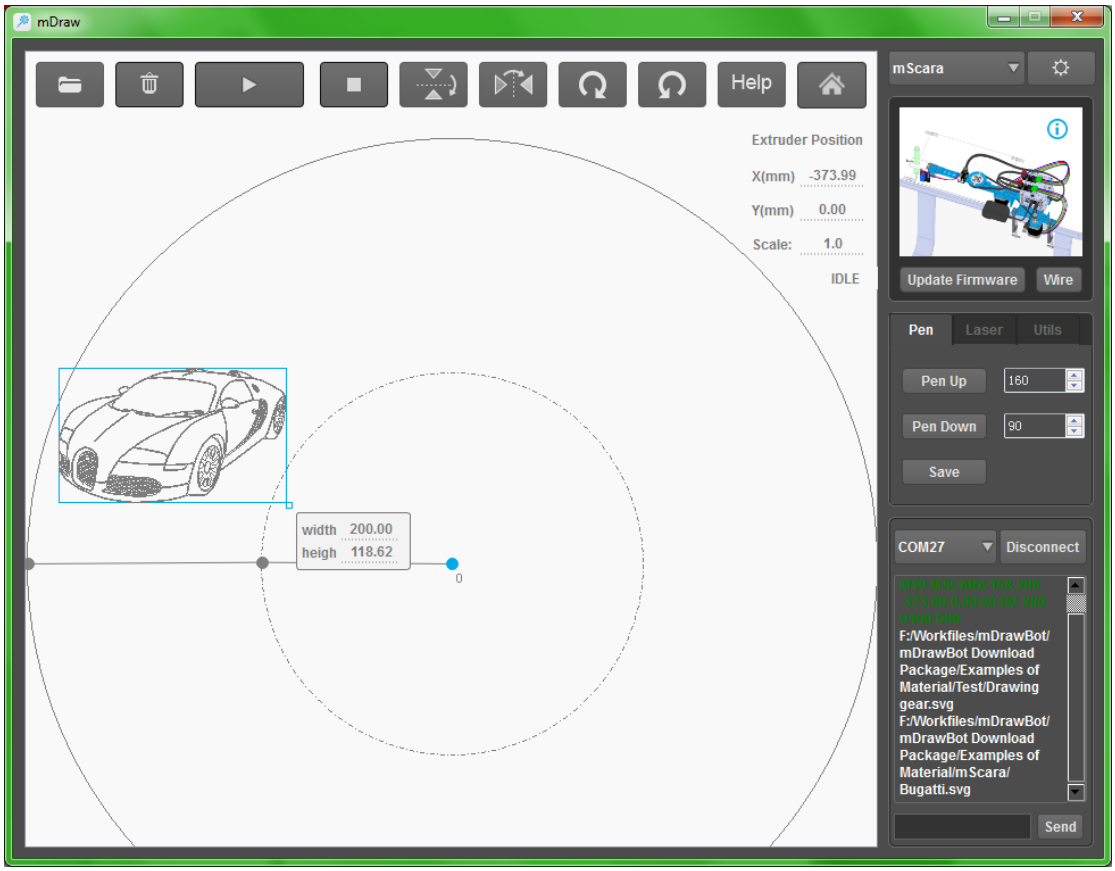


5. Save in Plain SVG（*svg）format (make sure to select this format and otherwise,

some line types may not be supported).



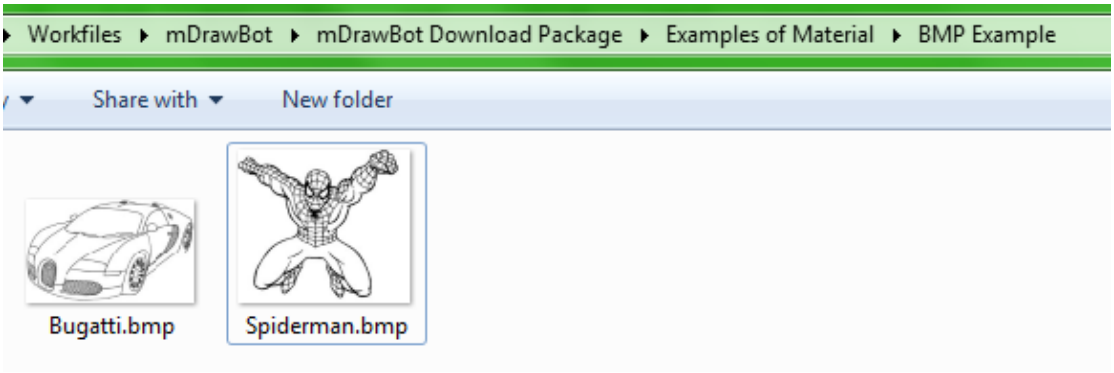
6. The effect after opening is shown below. Adjust location and size, and click “begin” to draw the graph (before use, manually or automatically reset mDrawBot to the consistent location as the default software interface.



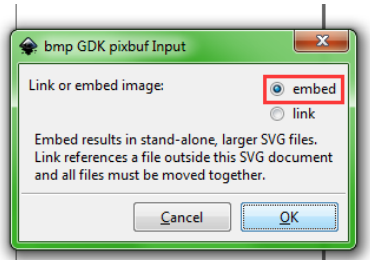
II、 Example of Inkscape coordinating with senior user of mDraw software.

1. First, you may search the graph which you want from Google. The graph is sketch as much as possible, which is better processed. For example, spider-man is searched (click to obtain link). The graph is stored your download file.

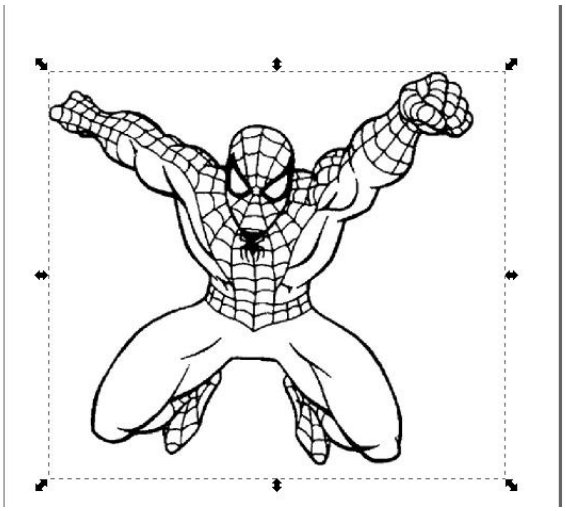
（…\mDrawBot Download Package\Examples of Material\BMPExample\Spiderman.bmp）。



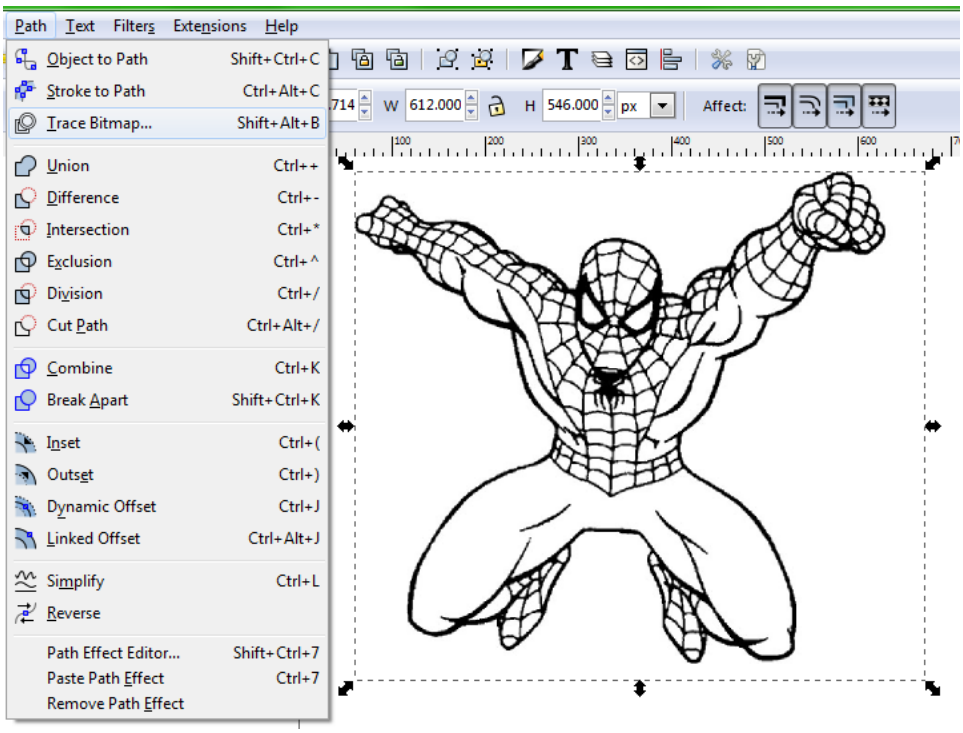
2. Open Spiderman.bmp by the inkscape.



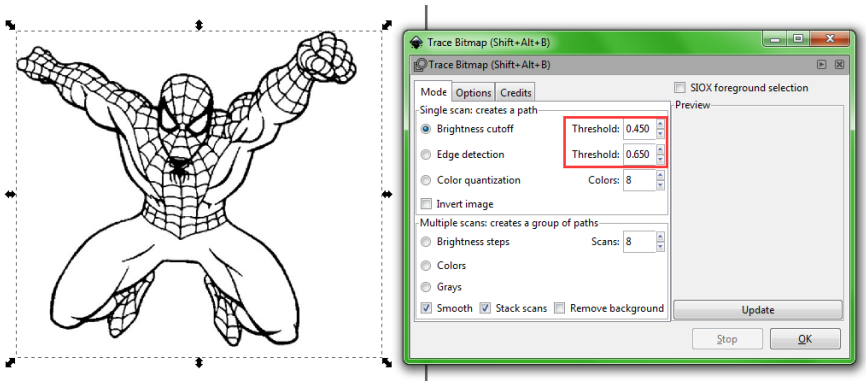
3. Select the graph in the inkscape and move it to suitable location.



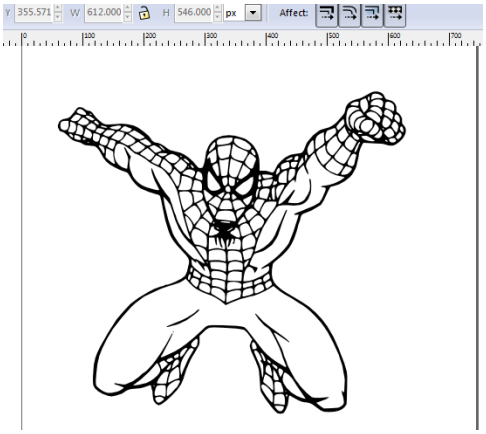
4. Select Path→Trace Bitmap (or press shortcut key shift+Alt+B).



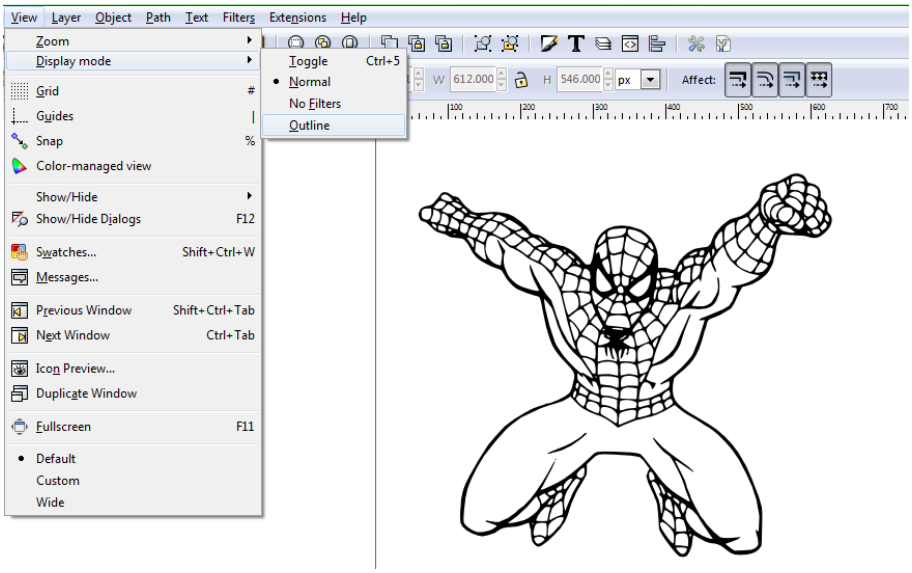
5. Change the parameters in the box, and click Update and click OK till the qualified vector graph is generated.



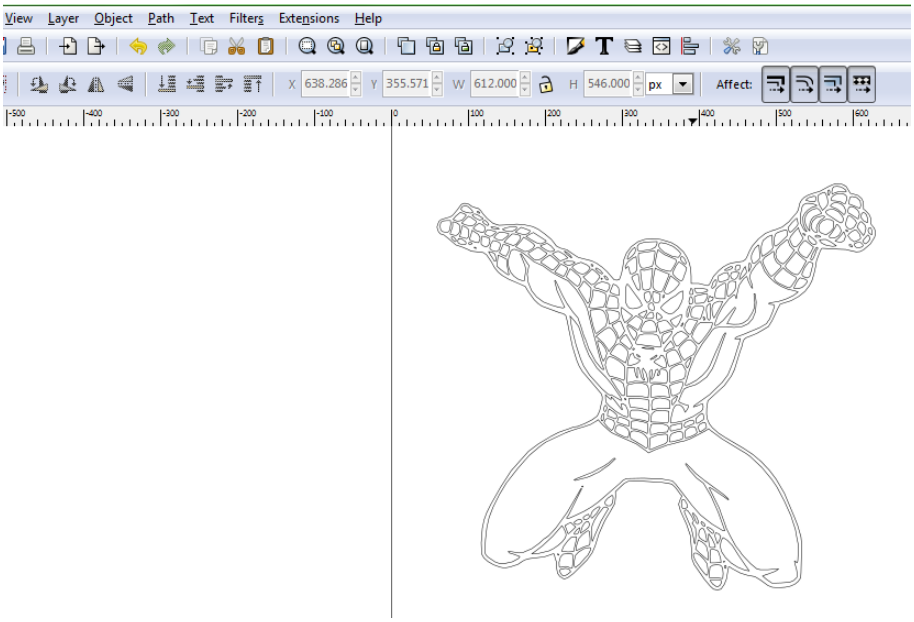
6. Delete the bitmap and retain the vector graph.



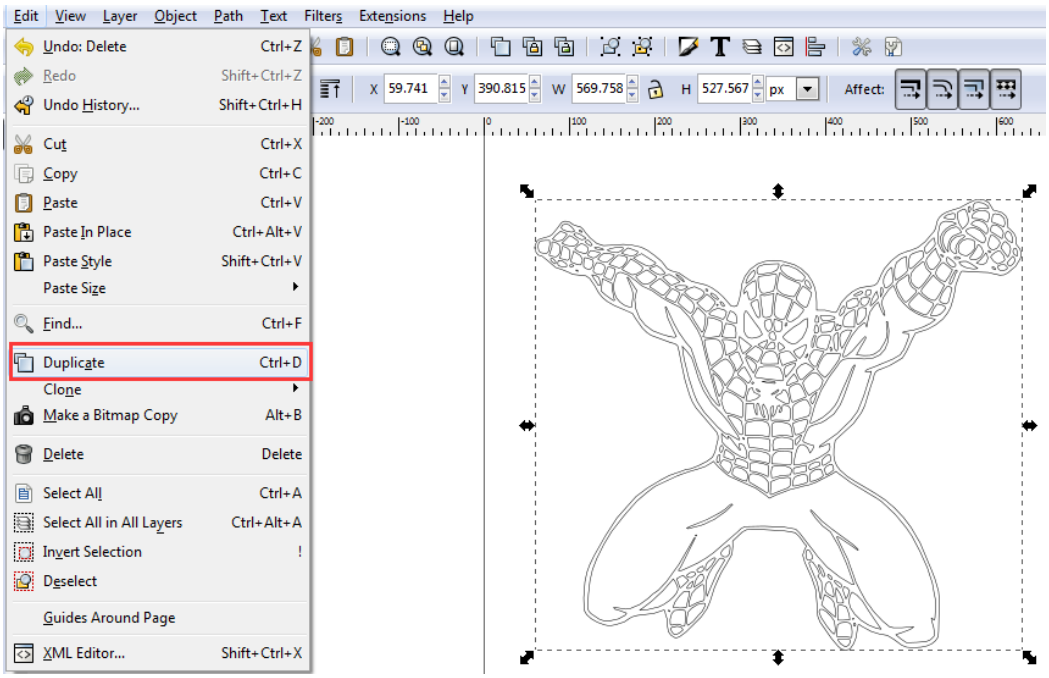
7. View the vector graph by the wireframe mode.

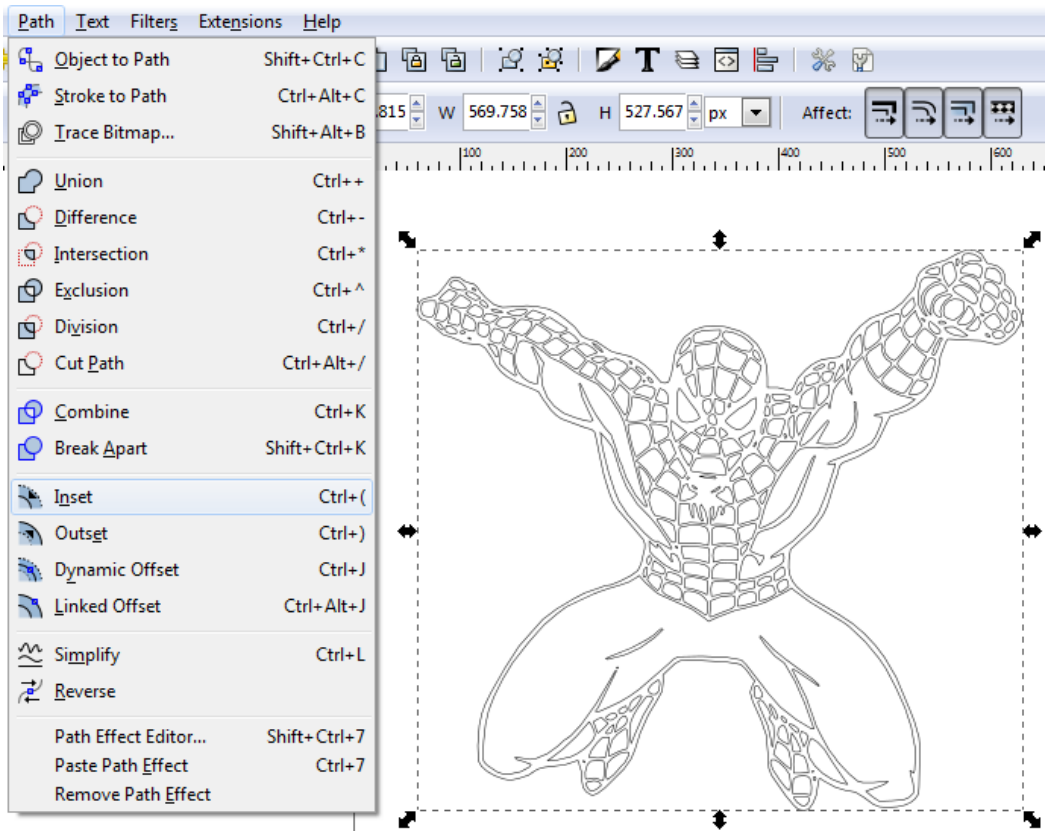


8. If the graph does not have the desirable effect, modify it.

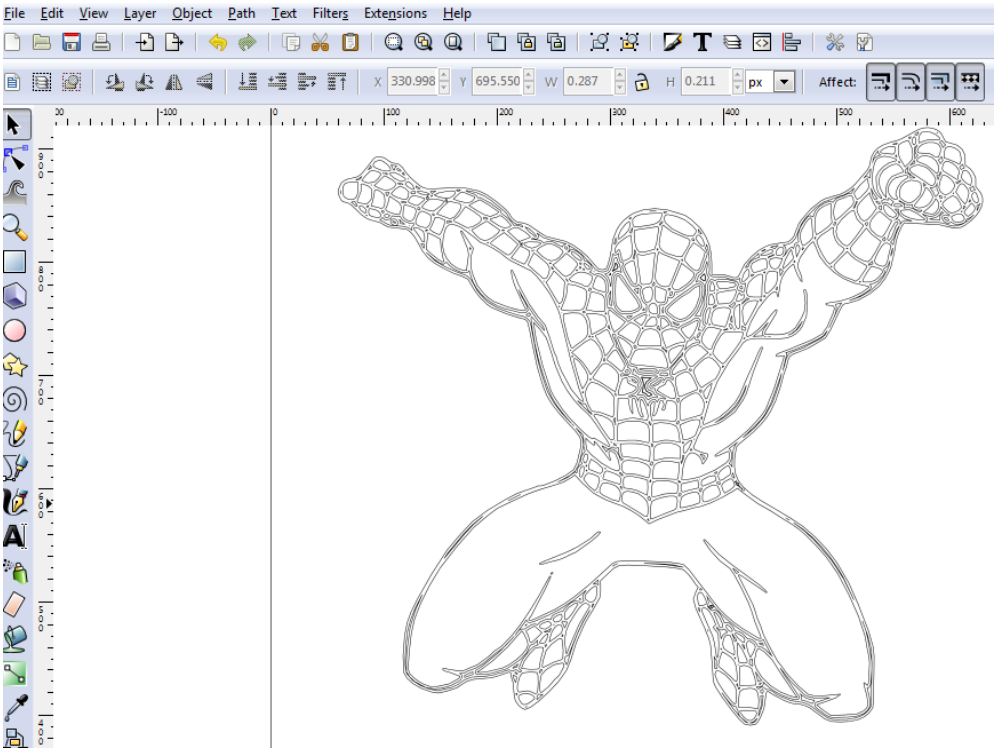


9. Select the vector graph, as shown in the figure (or press shortcut key Ctrl+D) and select Path→Inset (or press shortcut key Ctrl+（ ） Repeat the above operation till the graph is drawn in to generate corresponding details.

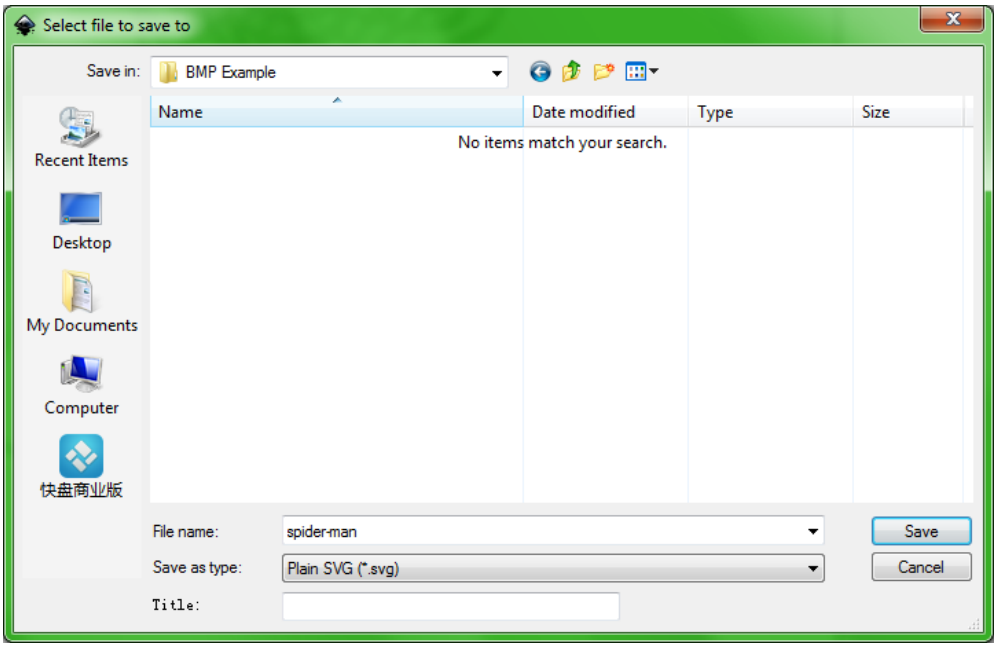

Edit View Layer Object Path Text Filters Extensions Help
Undo: Delete Ctrl+Z
Redo Shift+Ctrl+Z
Undo History... Shift+Ctrl+H
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Paste In Place Ctrl+Alt+V
Paste Style Shift+Ctrl+V
Paste Size
Find... Ctrl+F
Duplicate Ctrl+D
Clone
Make a Bitmap Copy Alt+B
Delete Delete
Select All Ctrl+A
Select All in All Layers Ctrl+Alt+A
Invert Selection !
Deselect
Guides Around Page
XML Editor... Shift+Ctrl+X
X 59.741 Y 390.815 W 569.758 H 527.567 px Affect:


Path Text Filters Extensions Help
Object to Path Shift+Ctrl+C
Stroke to Path Ctrl+Alt+C
Trace Bitmap... Shift+Alt+B
Union Ctrl++
Difference Ctrl+-
Intersection Ctrl+*
Exclusion Ctrl+^
Division Ctrl+/
Cut Path Ctrl+Alt+/
Combine Ctrl+K
Break Apart Shift+Ctrl+K
Inset Ctrl+(
Outset Ctrl+)
Dynamic Offset Ctrl+J
Linked Offset Ctrl+Alt+J
Simplify Ctrl+L
Reverse
Path Effect Editor... Shift+Ctrl+7
Paste Path Effect Ctrl+7
Remove Path Effect
W 569.758 H 527.567 px Affect:

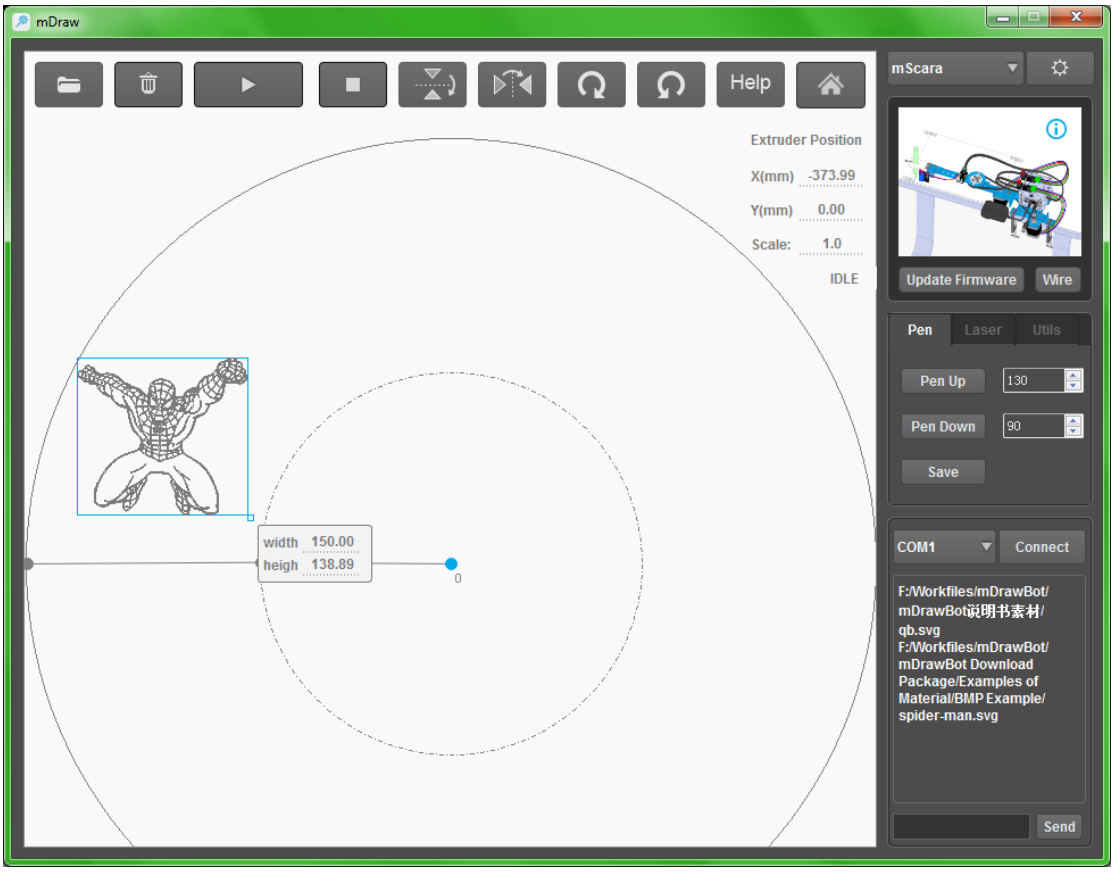
10. Results are given below:



11. Save in Plain SVG（*svg）format (make sure to select this format and otherwise, some line types may not be supported).

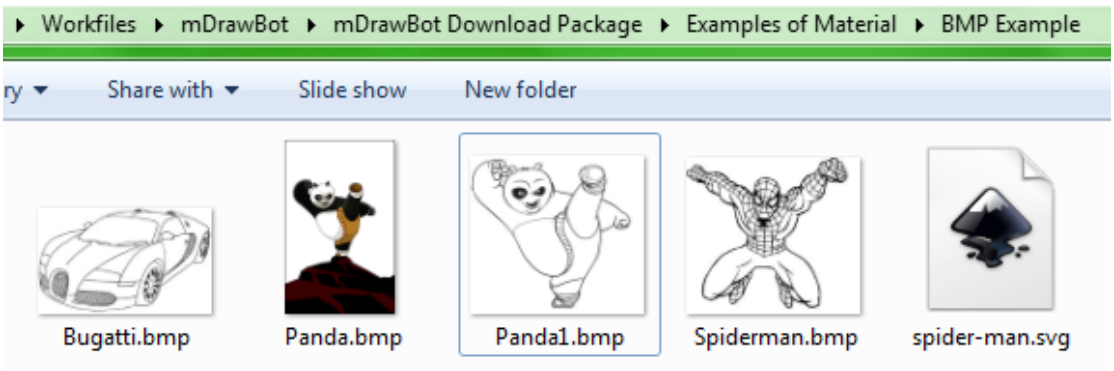


12. The effect after use of mDraw is given below:

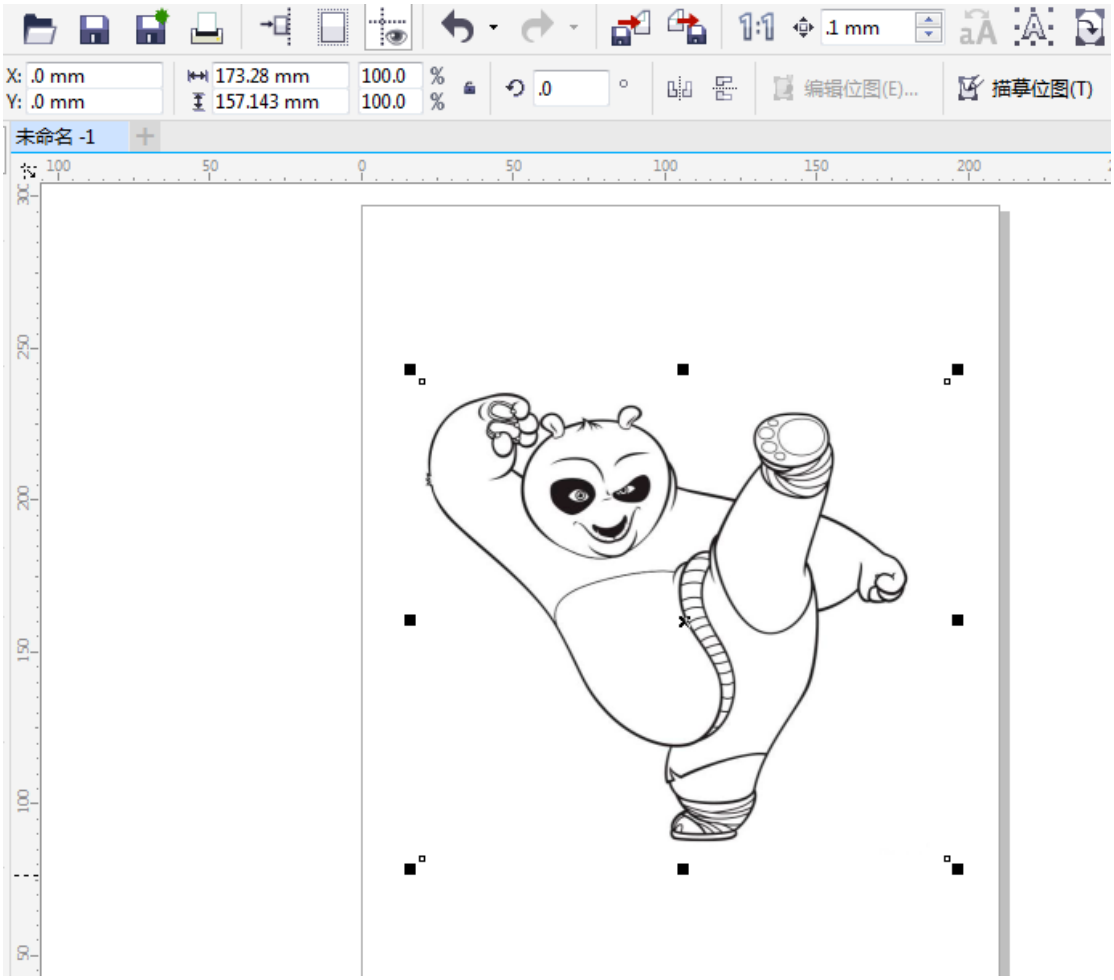


III、 Example of corelDRAW+Inkscape coordinating with senior user of mDraw software.

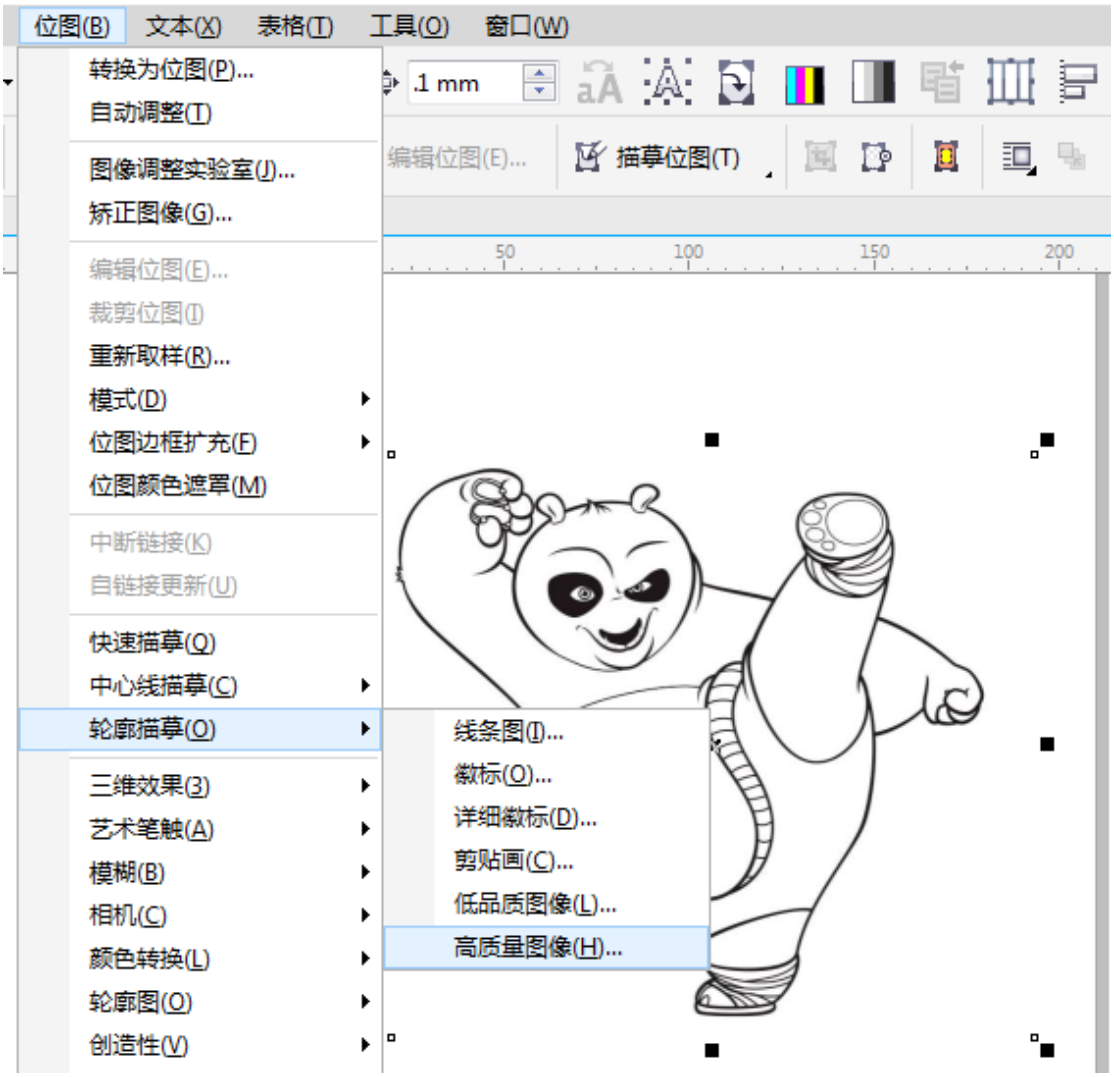
1. Properly install CorelDRAW and Inkscape software
2. Download corresponding graph from internet More complex bitmap example here （…\mDrawBot Download Package\Examples of Material\BMP Example\Panda1.bmp）



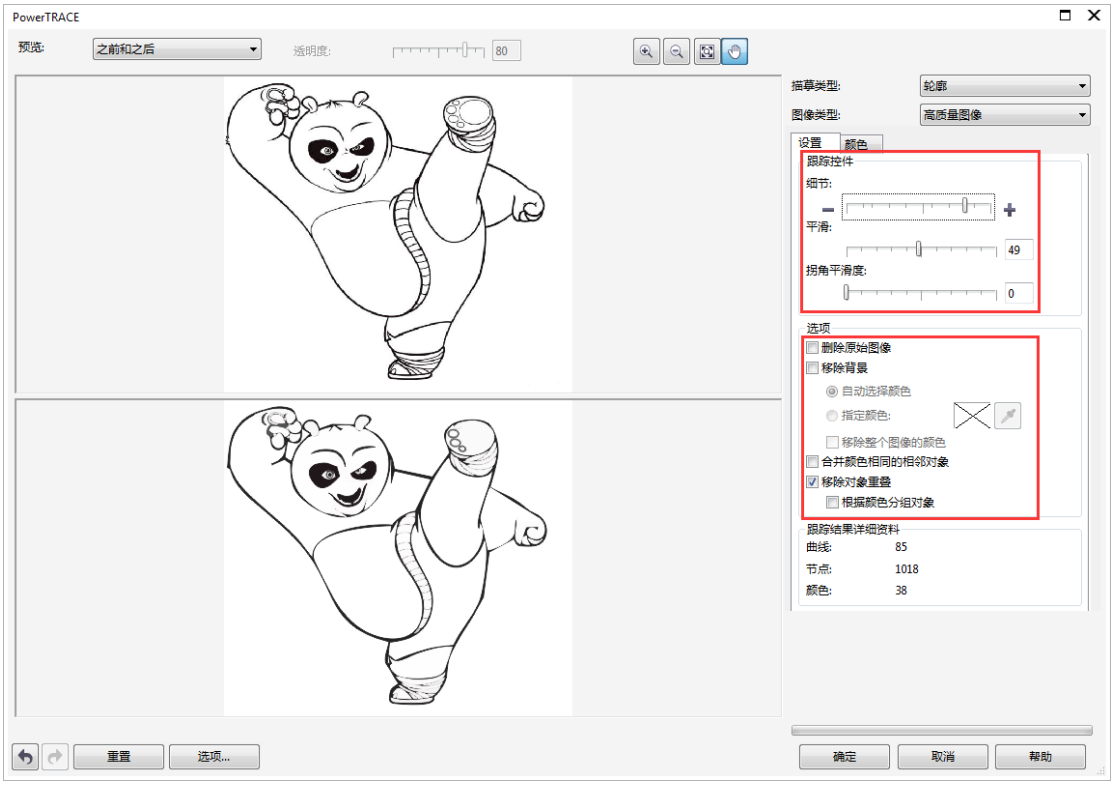
3. Open and select Panda.bmp by CorelDRAW



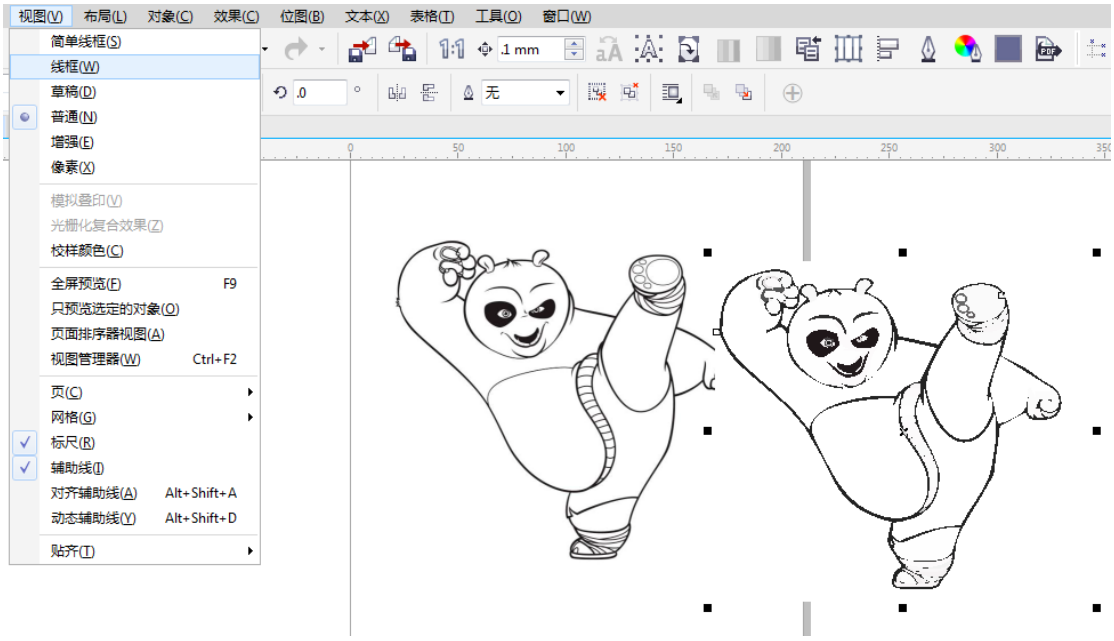
4. Select the following menu, bitmap → depict outline → high quality graph



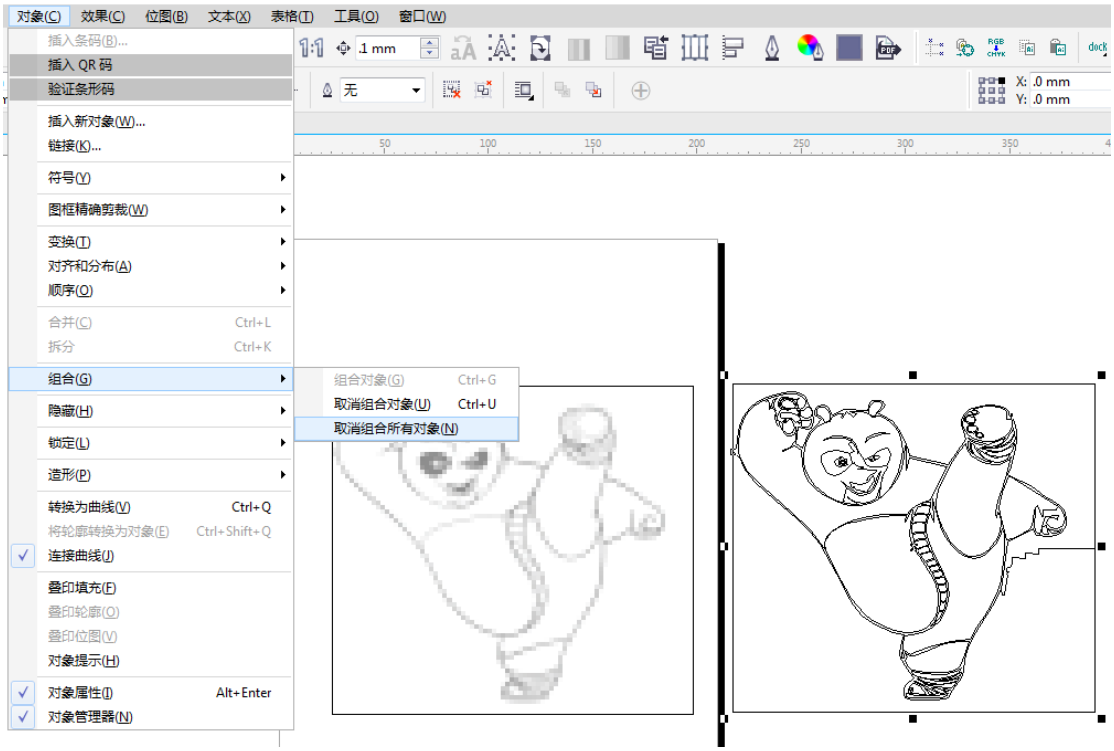
5. Select the following button to adjust parameter.



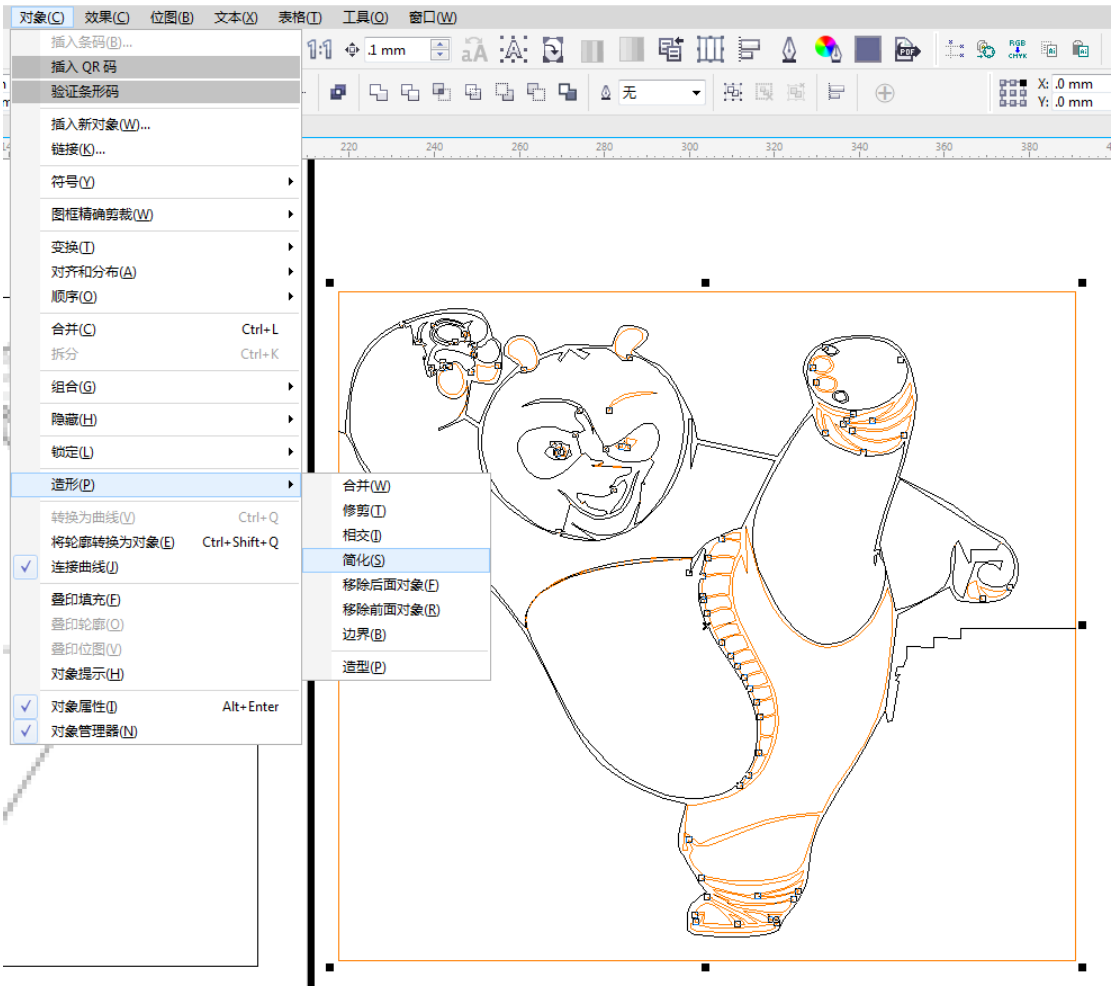
6. View → preview wireframe display graph



7. Select vector graph, object → combination → cancel all combined objects, and then delete some unseasonable line.

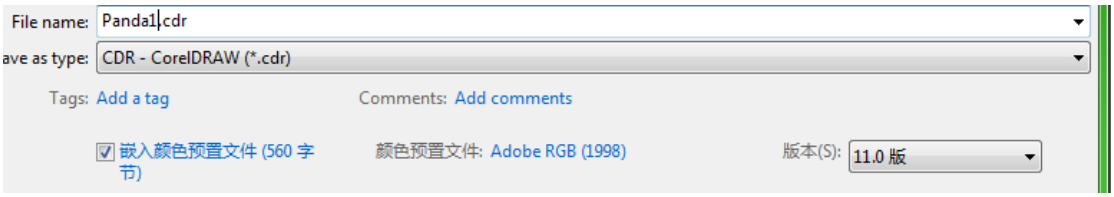


8. Select vector graph, object → shape → simplify, and remove some excessive points.

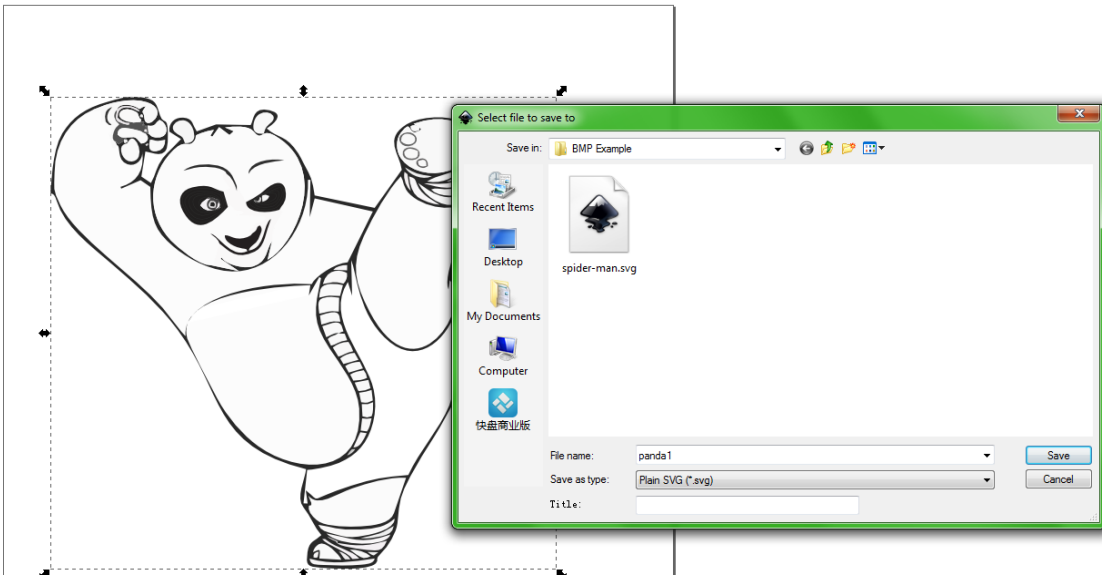


9. Manually add lines such as eye, noise, etc. to become more visual.

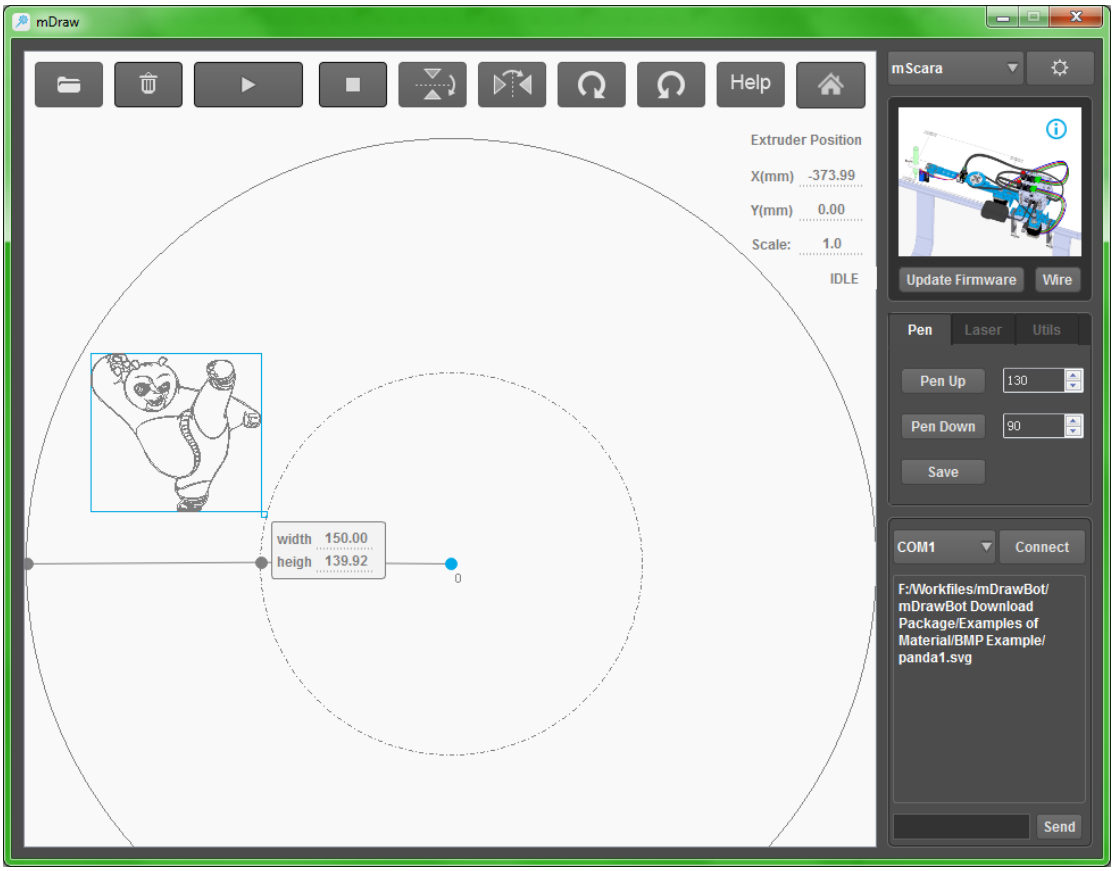
10. Save as CDR format (version below 11.0）



11. Open the file saved junty by Inkscape and change the save format to Plain SVG.



12. Open it by mDraw software, and draw after setting parameter.



Note: Search edition skill on vector graph in internet, and save it by Plain.SVG, and then use for drawing by mDraw.