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很多雷雕軟體或是外掛也有支援dxf的檔案格式,不見得一定要使用Corel的ai檔,最近嘗試使用Inkscape來製作雷雕的設計,用意是讓使用者可以不用擔心高額的軟體費,更可以推廣給師生來免費使用。 另存新檔 選擇dxf格式 匯入的向量圖檔可以做激光切割的圖 雕刻圖可以匯成png檔使用 Have you ever found a great free file or a beautiful design on Etsy just to be disappointed that it doesn't come in .dxf format? What if I told you with a couple of clicks you can make these files use without a software update? It's really that simple, and I'll show you how. First, you will need to download a copy of Inkscape. It's a free program similar to Adobe Illustrator. You can find links and step-by-step here. Now that this is done, open the svg you would like to convert. You can drag it out of the file folder window directly into Inkscape to open it faster. The key to creating a dxf job is to make sure there is nothing connected - no grouping or complex paths. For more on this, see STEP ONE - UNGROUP Click on the object in the top menu and select Ungroup in the drop down menu. STEP TWO - RELEASE COMPOUND PATHS Click on the path in the top menu and select Break Apart in the drop down menu. When a group of objects are welded together in Silhouette Studio, they are called composite pathways. The tricky way tells the software which parts of the design to cut together and keeps them from moving out of place. The term Inkscape used to connect the path is to break into pieces. Now your image will look something like this: If you compare before and after you will see that there are a bunch of extra boxes on the main part of the flower now. Previously, these were empty spots in the middle of the structure. The same thing happens with the text. You know you're on the right track if you see something like this: STEP THREE - SAVE AS DXF Click on the file and save How to fall down the menu: Tap drop down next to Save as the type in the box that pops up and select Cutting Desktop Plotter (AutoCAD DXF R14) (.dxf) about halfway down. Now it's time to change the name of the file if you want and then click Save. There's a new pop-up: I don't check both top boxes. They are customizing for AutoCAD software so they won't really effect files for Silhouette Studio. You can set the base block on anything you're comfortable with - inches or pixels are usually the best choice. Don't stress about it though. Chances are you'll size it when you open it later. That's it. You're all done and ready to go! This is what the new dxf looks like opened in Silhouette Studio - easily peasy. Now it's your turn! Note: If the file still doesn't open in Silhouette properly, try using Break Apart in Inkscape again in case the connection paths haven't broken completely. Happy craft! I wonder how we can convert SVG into DXF in Inkscape CLI mode. In GUI for export / saving svg to dxf we can do it from the menu files, making Save As I went through the inkscape KJI document : here are basically export words used, so I tried inkscape --export-type=out.dxf in.svg inkscape --export-filename=out.dxf in.svg, but no success gives me errpr InkFileExcd: Permitted values: svg,png,ps,eps,pdf,emf,wmf,xaml, however, in the GUI under FILE - SAVE AS we can see many file formats, including DXF At Big Blue Saw, we receive files from our customers in various or formats: from AI to I.D.P.D. Our online citation system and waterjet cutting machines do work best with DXF files, however. Inkscape, the open source graphics editor has proven to be extremely useful in dealing with different types of files. Ready to turn your DXF projects into real parts made of aluminum, stainless steel or other materials? Try Big Blue Saw's online quoting and ordering system. This Big Blue Saw DXF export to Inkscape is based on improving DXF exports and improving DXF exports. It has the following additional features: A fixed version of Python's incompatibility crash on Linux. Inches are maintained as measuring units. Curves are converted into smaller and more accurate segments of lines. This improves the quality of the end part. Support for the release of the color. Level names have spaces that have been converted to improve compatibility. It has been tested on Linux as well as Windows. To install: On Linux or Windows: Close all open Inkscape windows. Download the qIP file containing DXF Export Big Blue Saw for Inkscape using the link at the bottom of this article. Unpack the qIP file in the Inkscape extension catalog: typically C:\Inkscape Inkscape\share\extensions on Windows or /usr/share/inkscape/extensions on Linux. You will need to rewrite the file simplertransformations.py version included in the ICP archive. Reboot inkscape. Hints for the Macintosh platform, courtesy of John Markham: Extension folder: /Apps/inkscape.app/Contents/Resources/extensions Addition will be marked when trying to save as DXF for the first time: Fantastic! xml wrap for libxml2 requires inkex.py and therefore this extension. Please download and install the latest version from of the year, or install it through your team pack manager, like: sudo apt-get install python-xml, which can be installed with a pip. For use after installing DXF Export Blue Saw for Inkscape: Create a picture as normal. Don't group all items by selecting everything (Ctrl-A or Edit Select All from the menu) and then re-unpacking (Shift-Ctrl-G or Ungroup object) to those until all the groups are broken down. Transform all objects in a way. You can make these items by all (Ctrl-A or Edit Select All from the Menu) and then click Shift-Ctrl-C or select the Path Object on the way out of the menu. Select file (.en) Save As from the menu. In the dialog field that appears, select Big Blue Saw DXF Output and click Save. Another thing for those who read so far. Most of the time, when I personally want to get the DXF out of a file uploaded to Inkscape, I save it (as an EPS, and convert it to DXF using the pstoeit package. It saves lines and curves, which is good, but requires the use of a command-string tool that is not for everyone. More information about using Inkscape with Big Blue Saw for laser or water cutting. Turn your Inkscape drawings into real metal or plastic parts. Big Blue Saw offers instant quotes from your DXF file! Learn about: The easiest way to order details based on your Inkscape designs what types of metals and plastics to use in your project getting the best price for waterjet and laser cutting Update 0.2: A bug fix based on a report from a blackfox commentator. Download the new version of DXF export Big Blue Saw for Inkscape here. Let Big Blue Saw turn your Inkscape designs into real parts made of aluminum, stainless steel, polycarbonate plastic and more! Better DXF Output is an extension for Inkscape 0.46 that improves DXF output to be more suitable for CNC operations. I use SheetCam to generate gcode from DXF and Solidworks eDrawings DXF previews. I really wanted to use a very simple vector drawing program to create a work of art, and I had some experience with Inkscape and noticed that it was a DXF outlet, however I was initially very disappointed and thought I wouldn't be able to use Inkscape to generate DXF. At first, I found that the Inkscape DXF export does not support layers. It also doesn't support objects other than paths (Inkscape handles rectangles and circles and such as objects other than the main paths), so my exported files were mostly empty. So I started digging into the problem in the Inkscape error database and of course there were two additional problems highlighted: the DXF export does not support objects with conversion attribute: this meant that sometimes the objects were just in the wrong position, and it was hard to know when this could happen without exceptionally detailed evidence reading DXF export does not produce the use of DXF, at least for some readers; SheetCam wasn't mentioned by name, but it seemed that maybe it wasn't an unusual problem Through my own experiments I found that SheetCam didn't import SPLINE objects from DXF correctly (they were heavily distorted), I will say that the support of SheetCam has been very helpful in explaining the problem, and making some useful which I could do inside Inkscape by hand. It worked, but I really wanted an automated solution to as many of these problems as possible. Luckily, I do, that the Inkscape export module is written in Python, and I could easily change it. So I rolled up my sleeves and made my own version of the DXF export module that solves my problems. I started with an updated version of the inkscape bug that highlighted the problem with the very basic DXF output from Inkscape (the bug #192923). I added logic to save layer ID for each object and (using a separate Inkscape module) automatically converted cubic paths into linear segments (flattening). I also fixed the problem with the conversion attribute. It still doesn't deal with arbitrary types of objects, but it's pretty easy to solve (Choose everything, convert objects in a way). I've also added a feature that creates POINT objects instead of LINE entities for objects on layers that end with the word drill. SheetCam uses POINT objects for drilling, and I didn't have an easy way to create them. There's really no way to disable this behavior (other than not ending your layer of names with drills, so if you end up using this extension, be aware of this). It works best with small rectangles because it will calculate the central point of the path by ingesting the field as a place for POINT. I just create small rectangles the same size as my drill hole. Update August 3, 2011 I received an email from Linda Moehsmmer reporting the issue of generating DXF output for a specific file. This file contains a path that cannot be flattened, and my code has entered an endless loop. Now the code refuses to align after the plane has been increments to 10. Depending on the content, this may render the file unusable, or you may get something usable. It is difficult to know, as this question is very specific for specific content. On February 23, 2009 I received an email from Jamie Tremayne with an error report when using the inkscape version supplied with Ubuntu 8.10. I finally managed to get some time to investigate and did have a bug that I have since managed to correct. Strange that it appeared only in the Ubuntu build, but it was definitely wrong. I received an email from Tim Gipson with a great suggestion to add a LAYER table to the DXF release. Before I could find time to implement it he actually did it himself. You can find his version of Better DXF Outlet on its website here: . I hope to find a bit of time to put his improvement back into my version but I haven't been able to do it yet. All of these files, like Inkscape itself, are licensed under GNU Public License v2. I don't claim credit for anything more than an extension of what was already available either from the Inkscape spread or from the Inkscape error database. Details there are definitely some to be aware when using this software: I only checked this with Inkscape 0.46 on Windows and 0.48 on Ubuntu tests thoroughly, I'm not providing any quality assurances or or or Be sure to convert all objects in a way before you export otherwise expect rectangles, ovals, text, etc. to disappear Some DXF importers have strict requirements for level names; Inkscape allows space where AutoCAD is not available, so you may need to rename layers before exporting The installation Download Mail file better_dxf_output.zip (6kb). It contains: dxf_templates.py (this is from Inkscape error 192923) better_dxf_outlines.inx better_dxf_outlines.py Note: previous versions included file simplertransform.py, which was designed to replace the original from Inkscape 0.46. This bug has since been fixed in Inkscape 0.48, you will need to update if you haven't already. Extract three files and install them in C:\inkscape\Share or /usr/share/inkscape/extensions (Linux), and then restart Inkscape to activate. Using the software to save as... Dialogue choose a record Better DXF Exit to get my version rather than the standard one. Credits and Links Inkscape, a free vector drawing program Inkscape bug 192923, Desktop Cutting Plotter (.dxf) output generates unreadable SPLINE Inkscape bug 220025, typos/errors in simplertransform.py (closed as duplicate 241565) Inkscape error 241565, parseTransform () in simplertransform.py does not analyze the actual conversions (correction sent) by Jamie Tremayne, for pointing to an error in the use of self.document.getroot (.xpath))Andrew Sweat for a tip regarding the names of the layer corresponding to AutoCAD requirements inkscape to dxf tutorial. exporting inkscape to dxf. save inkscape to dxf. inkscape jpg to dxf. inkscape pdf to dxf. convert png to dxf inkscape. inkscape failed to load dxf. how to open dxf file in inkscape

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