

Optimize Sequence: Small Holes First

Source of Documentation: <https://github.com/L0laapk3/inkscape-laser-sequence-extension>

If you use(d) inkscape to create models for laser cutting, chances are you have ran into the following problem: the laser cutter first cuts the large shape, then it ever so slightly moves, then the holes in that shape are created but with a small offset. Thats why I created this simple extension to deal with this! The extension exists out of a couple lines of code that will re-arrange the order of the vectors for you, so the small holes get cut first.

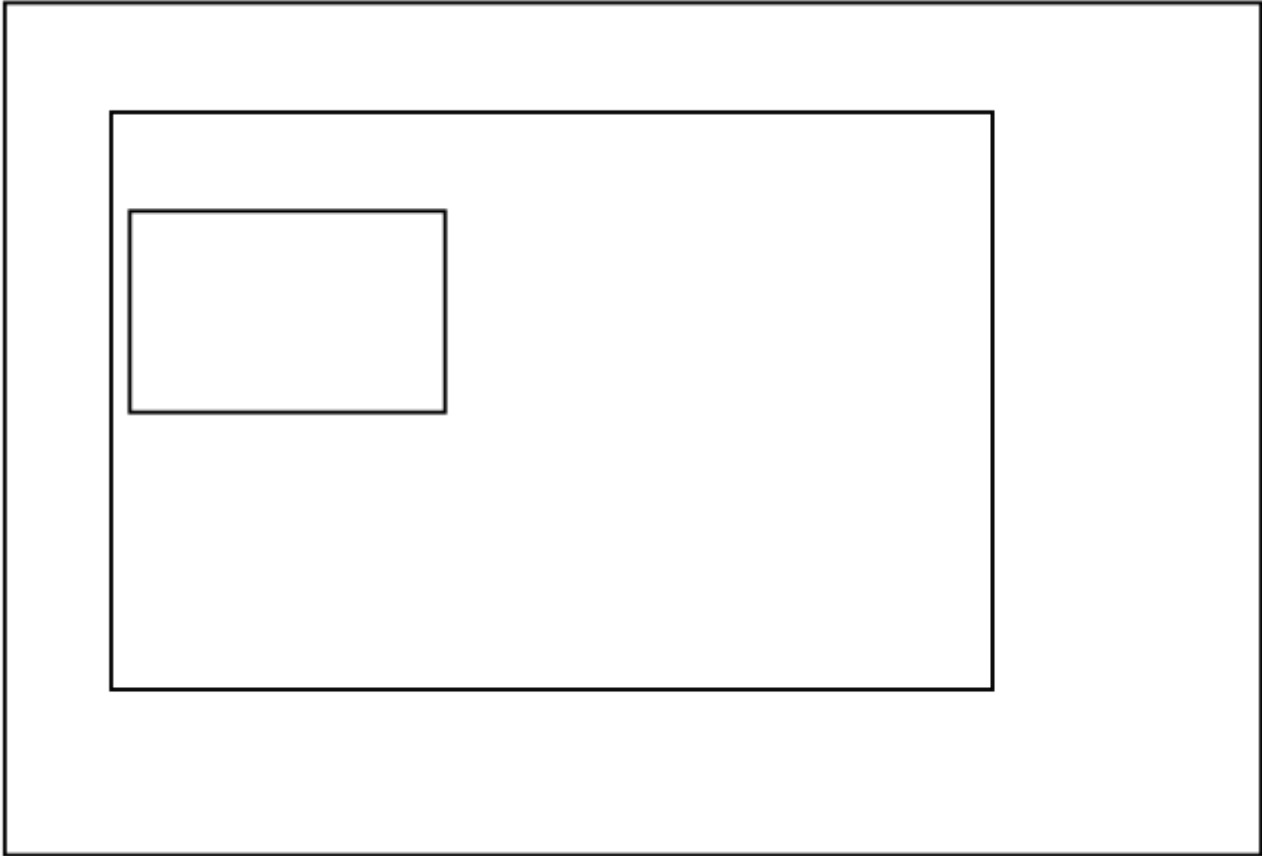
You might need to combine the desired contours using ctrl + K to build up a long "total path" object.

Also have a look at [Line Sorting](#) and [Optimize Sequence: Travel Distances](#)

Example

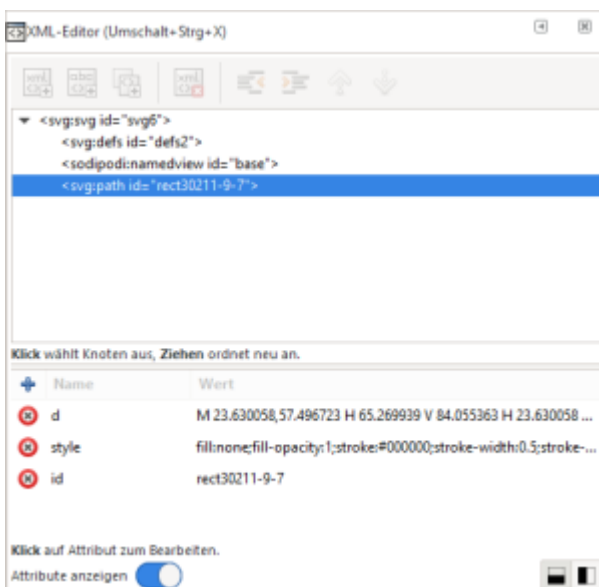
Draw some closed contours.

Make some "bad" order (first rectangle in the middle, then a small one, then a large outer one)



Combine and check

Combine the paths to common contour using ctrl + K. Check the 'd' node of the XML item to see how the path actually looks alike.



```
M 7.1105146,29.996967 H 173.07073 V 142.51136 H 7.1105146 Z M 23.630058,57.496723 h 41.639881
v 26.55864 H 23.630058 Z M 21.166666,44.450001 H 137.58332 V 120.65 H 21.166666 Z
```

Run the extension and check the 'd' node again

```
M 7.1105146,29.996967 H 173.07073 V 142.51136 H 7.1105146 Z M 23.630058,57.496723 h 41.639881  
v 26.55864 H 23.630058 Z M 21.166666,44.450001 H 137.58332 V 120.65 H 21.166666 Z
```

Version #3

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