

# Modify Path

- [To Absolute](#)
- [Perspective](#)
- [Convert to Dashes](#)
- [Add Nodes](#)
- [Approximate Curves by Straight Lines \(Flatten Beziers\)](#)

# To Absolute

This extension simply transform paths from relative coordinates to absolute coordinate. The path's "d" attribute will be reconfigured to get uppercase command letters like A C M Z V H L instead of a c m z v h l.

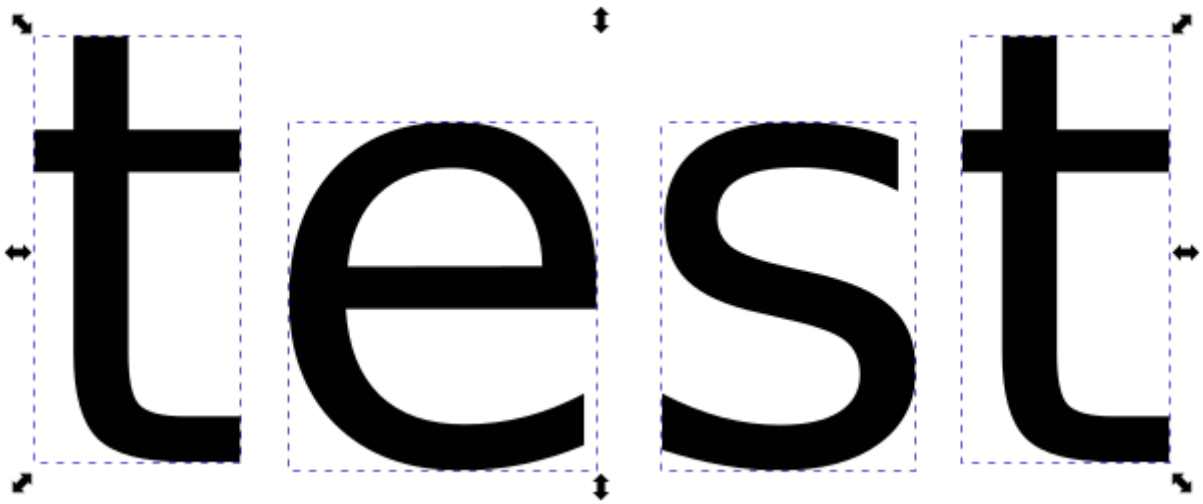
Perspective

Example with text

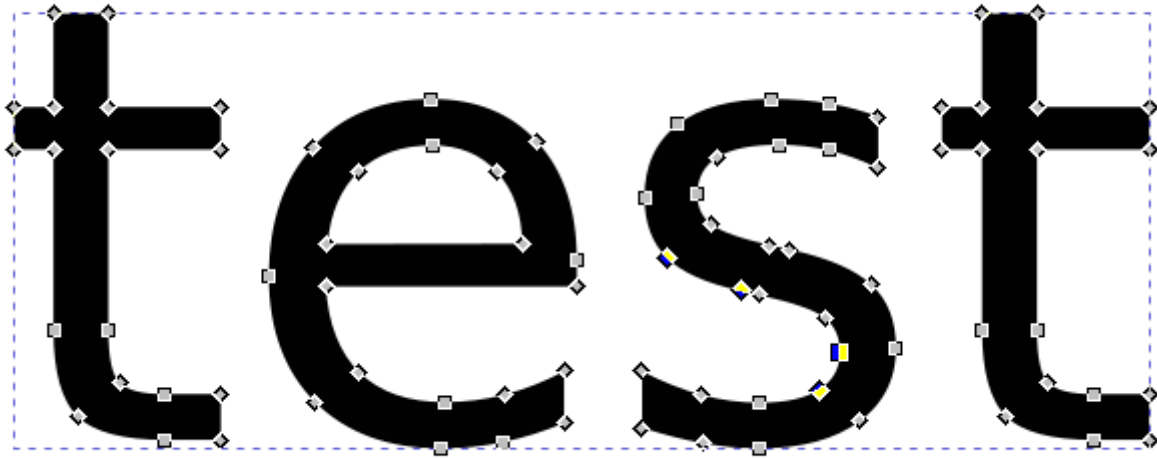
Write some text and convert Object to Path

test

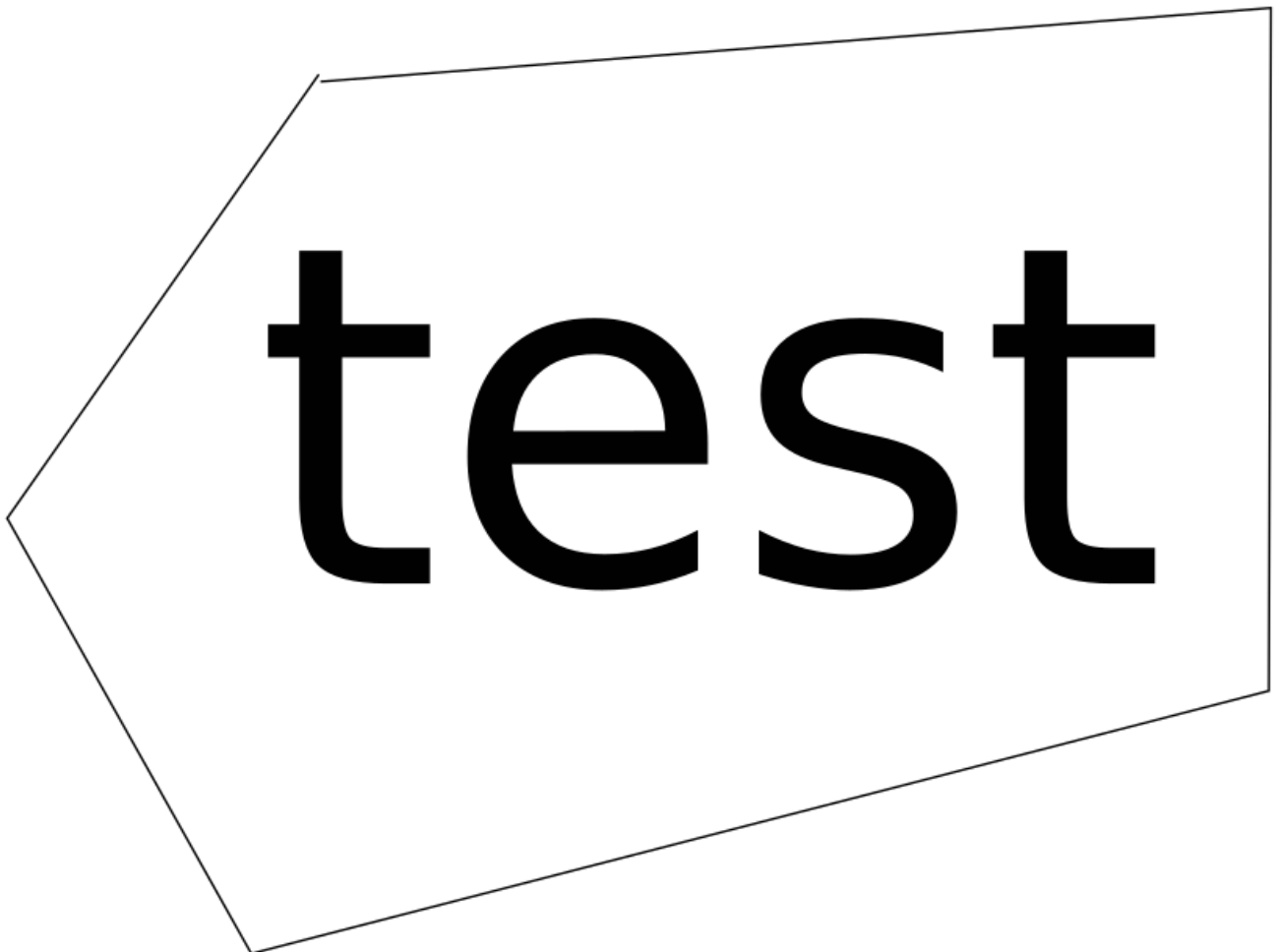
Ungroup



Combine to one Path

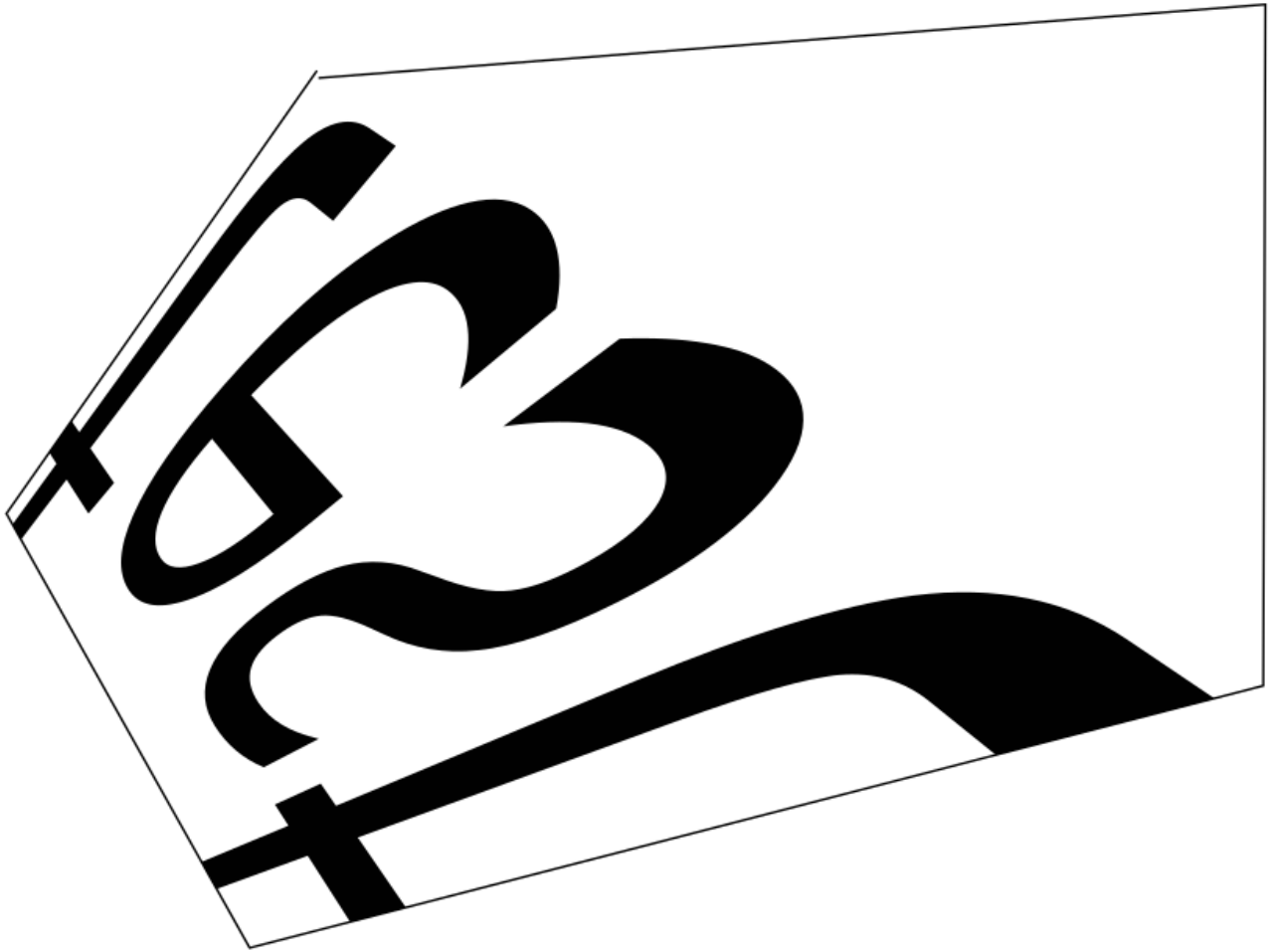


Draw a border path



"Modify Path ? Perspective"

Select the text first, then the border. Selection order is important.



This effect can also be done with Live Path Effect or with other extensions - see [Transformations](#)

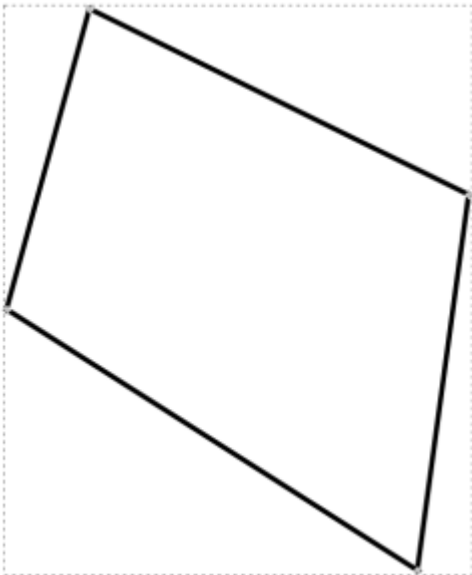
# Convert to Dashes

This extension can be used to create bridges / tabs for a laser cutter job. We can define a custom line style (dashed) and convert it using this extension.

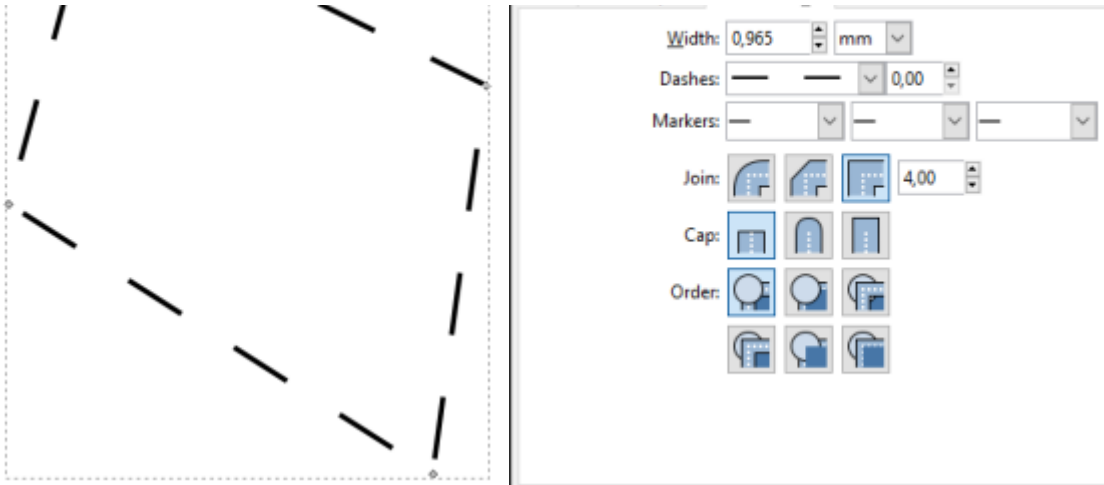
See also [Lasercut bridges without using extensions](#) and [Create Links \(Breakaway Connectors\)](#).

## Example 1

Draw some path

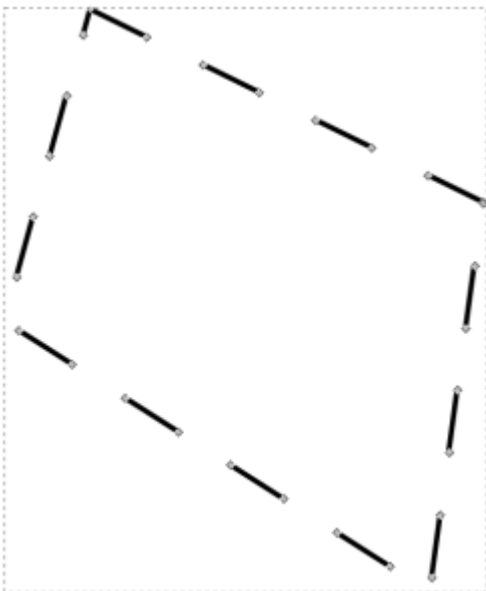


Change stroke style to dashes



## Run extension

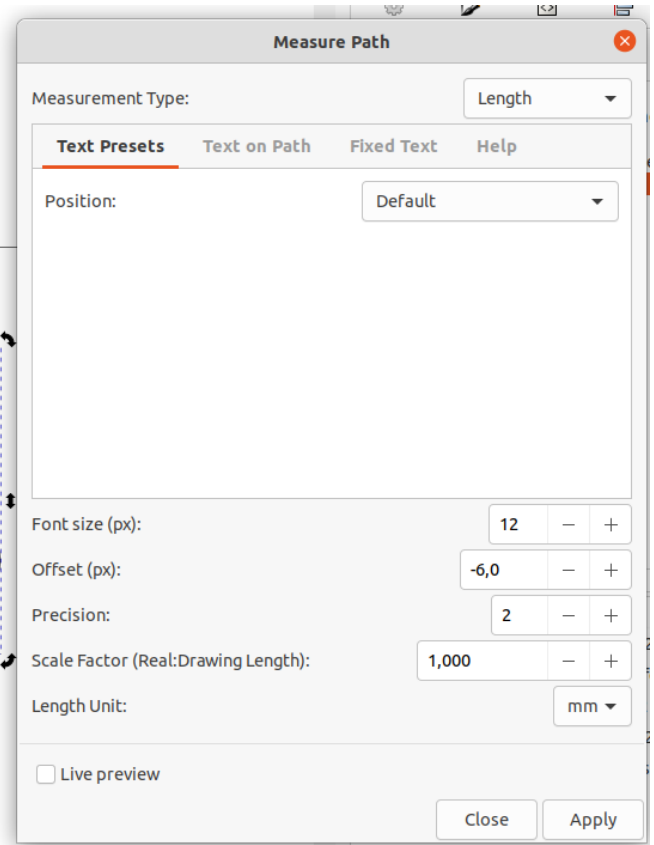
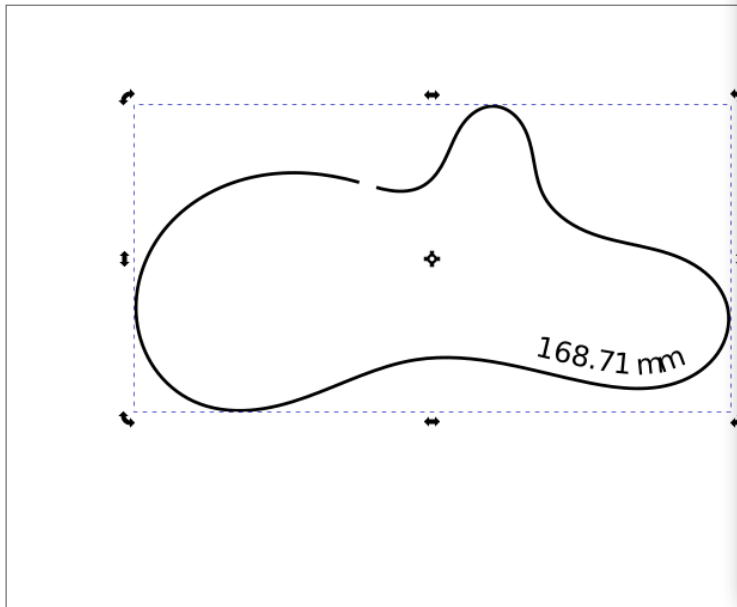
Each "virtual" dash will be split into a real segmented line



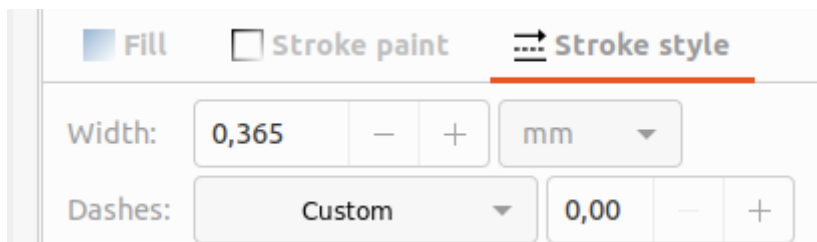
## Example 2

Set the document units to mm

Draw some curve and measure it's length in mm



Set custom line style ("Dashes" ? "Custom")



Create a gap

Edit XML style to create a 2 mm gap. In the example line length is 168.71 mm. If we want a single 2 mm gap we set stroke dash array to  $168.71\text{mm} - 2\text{mm} = 166.71\text{mm}$



Click to select nodes, drag to rearrange.

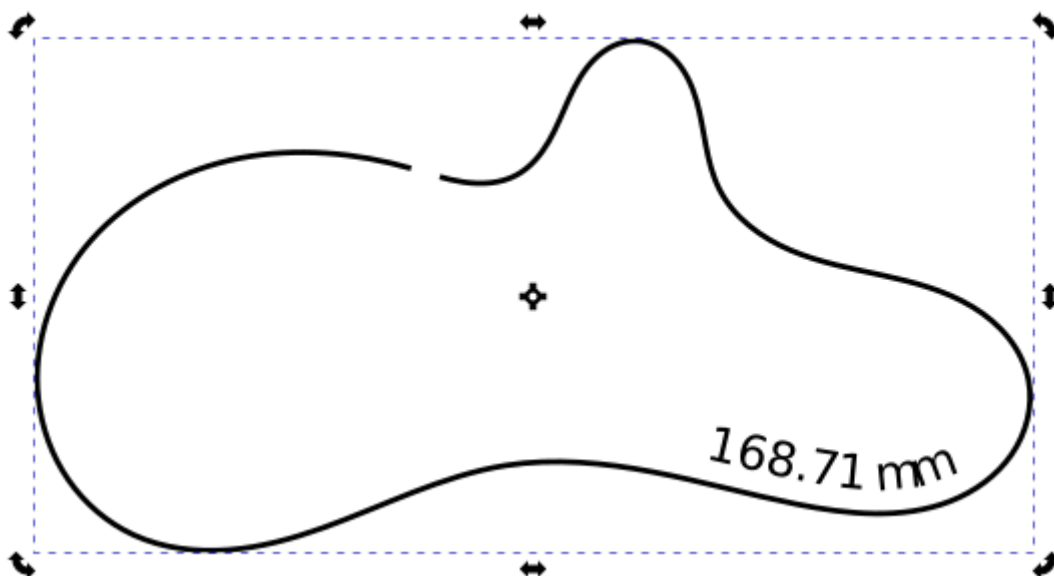
+	Name	Value
🚫	inkscape:original-d	M 39.199239,19.694039 C 36.873512,19.546 26.96171,35.869696 20.842...
🚫	inkscape:path-effect	#path-effect1764
🚫	id	path1762
🚫	d	m 39.199239,19.694039 c -3.667743,-1.055041 -7.576282,-1.403834 -11.3...
🚫	style	fill:none;stroke:#000000;stroke-width:0.365;stroke-linecap:butt;stroke...

fill:none;stroke:#000000;stroke-width:0.365;stroke-linecap:butt;stroke-linejoin:miter;stroke-opacity:1;stroke-miterlimit:4;stroke-dasharray:166.71;stroke-dashoffset:0

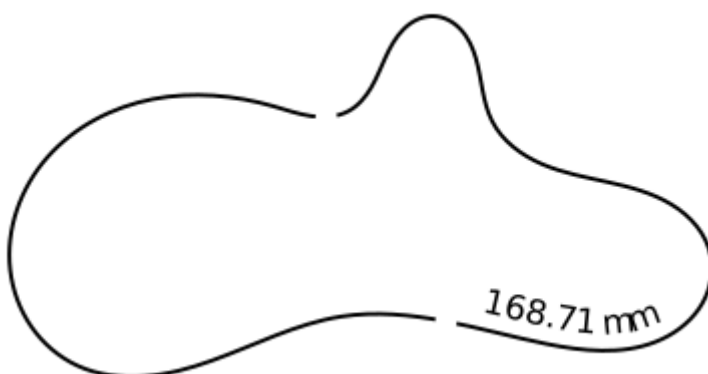
Click attribute to edit.

Show attributes ☒

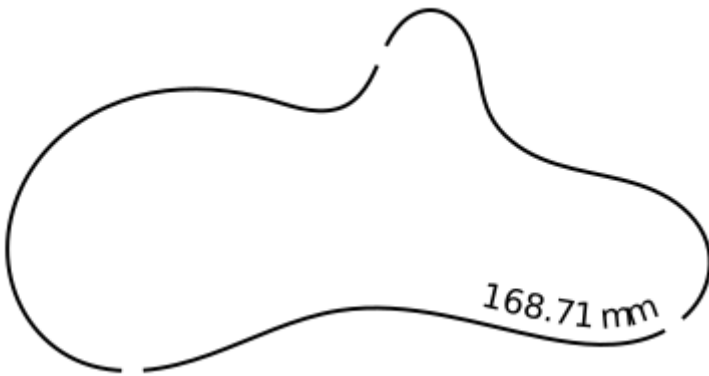
Shift+Return for a new line ✖ ✔



If we want three gaps in a path with length of 168.71 mm and a gap length of 2 mm we set the stroke-dasharray to: 80.355 2.0 → because  $3 * 80.355 \text{ mm} + 2 * 2.0 \text{ mm} = 168.71 \text{ mm}$



If we want three gaps in a path with length of 168.71 mm and a gap length of 2 mm we set the stroke-dasharray to: 50.236 2.0 → because  $3 * 50.236 \text{ mm} + 3 * 2.0 \text{ mm} = 168.71 \text{ mm}$

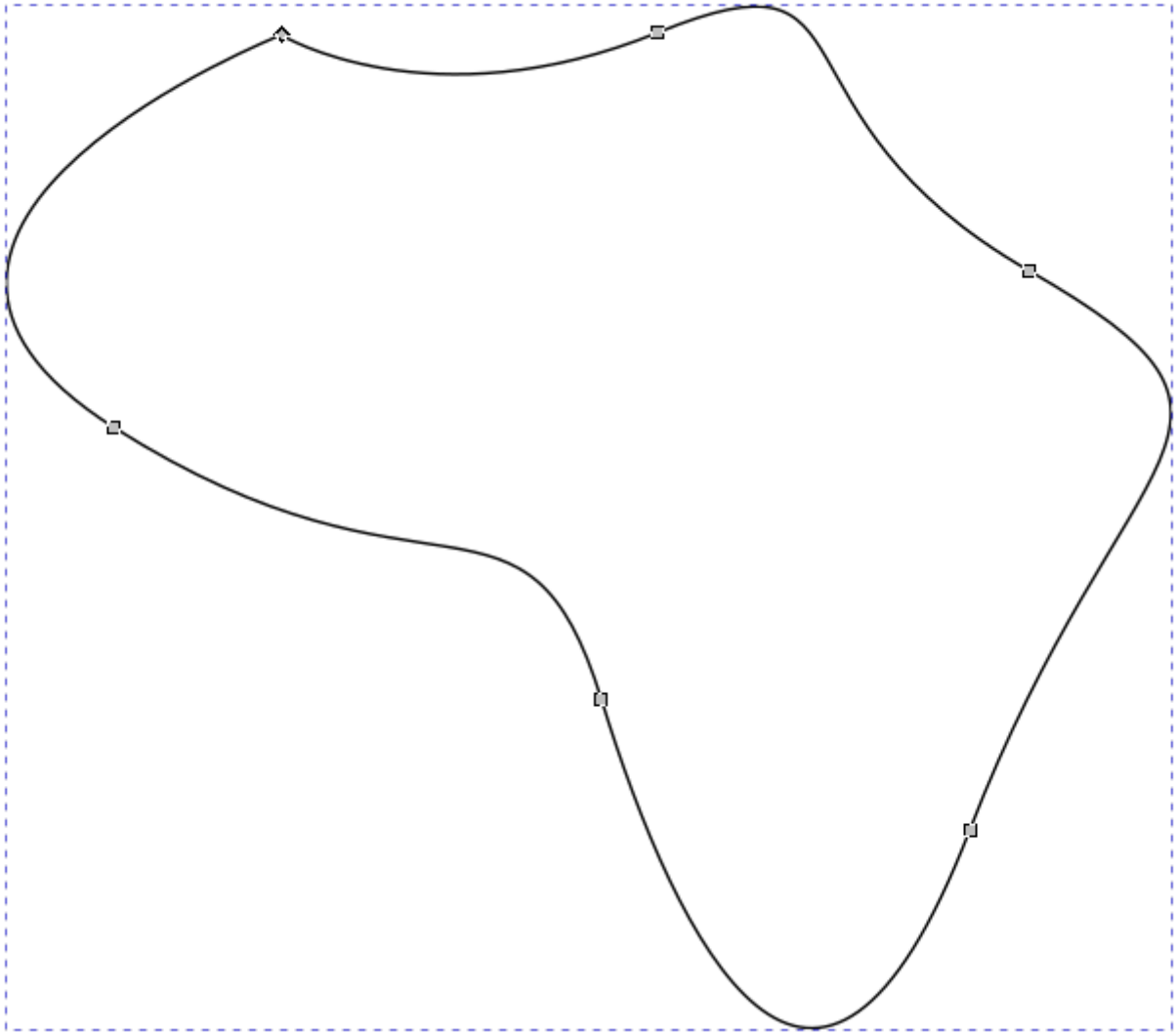


Run the "Convert to Dashes" extension

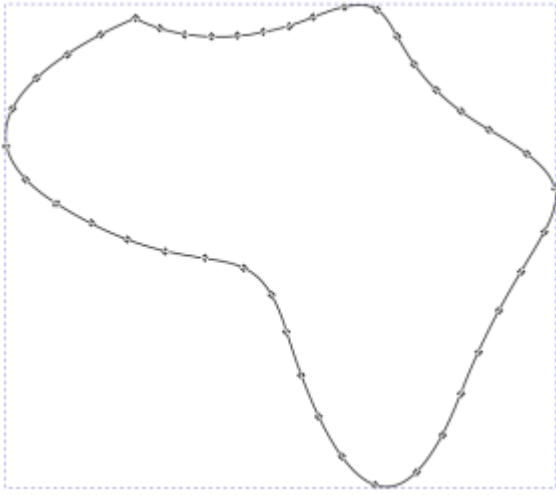
# Add Nodes

This behaves similar like [Split Bezier \(Subdivide Path\)](#)

## Draw some path



Run "Modify Path" ? "Add Nodes"

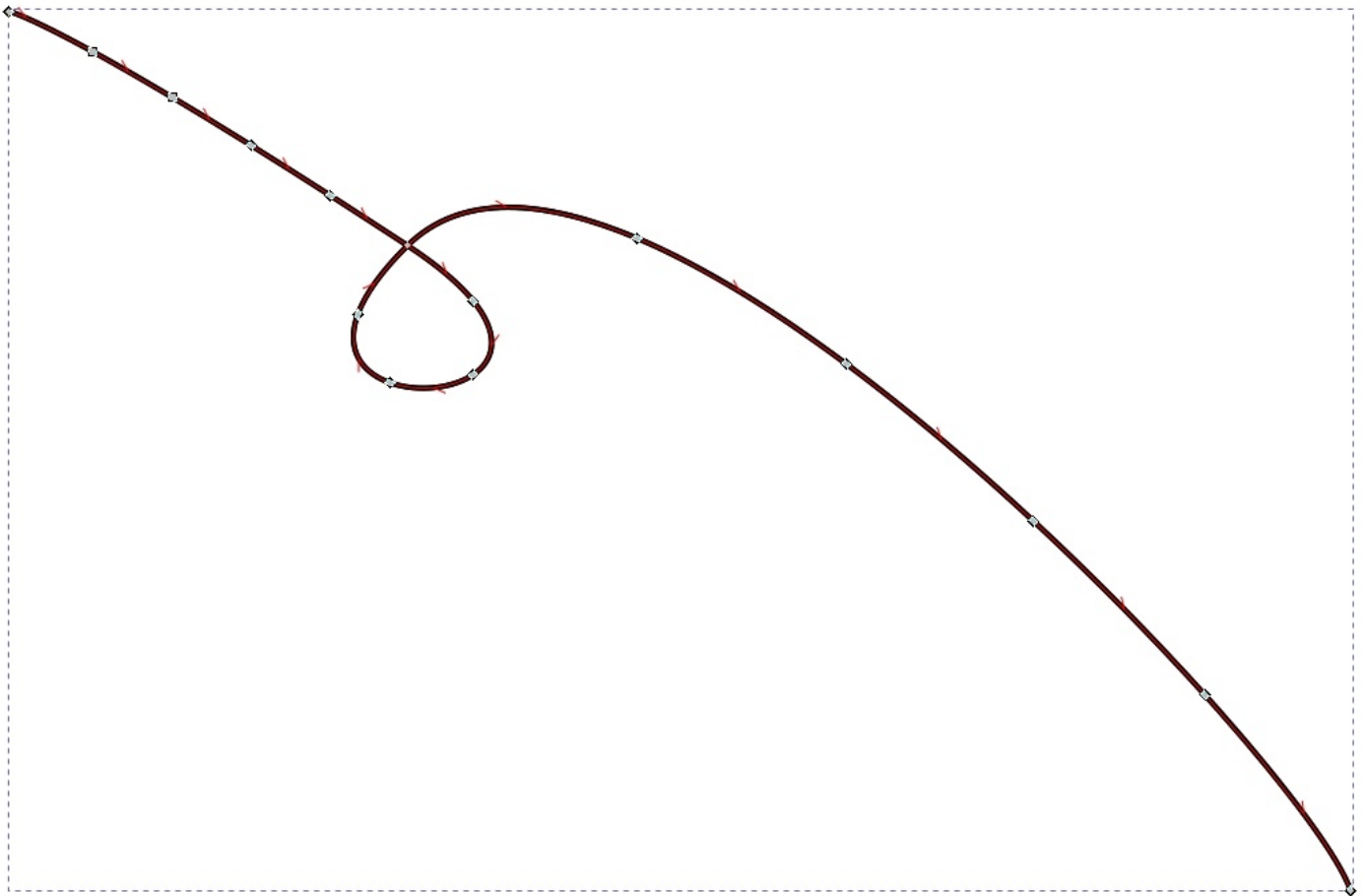


# Approximate Curves by Straight Lines (Flatten Beziers)

Hint: The new name of this extension is "Approximate Curves by Straight Lines". The old one was "Flatten Beziers"

This plugin does not apply for paths in groups. Please ungroup before. You can use Extensions → Arrange → Deep Ungroup) or [Ungrouper And Element Migrator/Filter](#). This extension is similar to [Convert To Polylines](#) but has more control over the contours.

## Draw some path



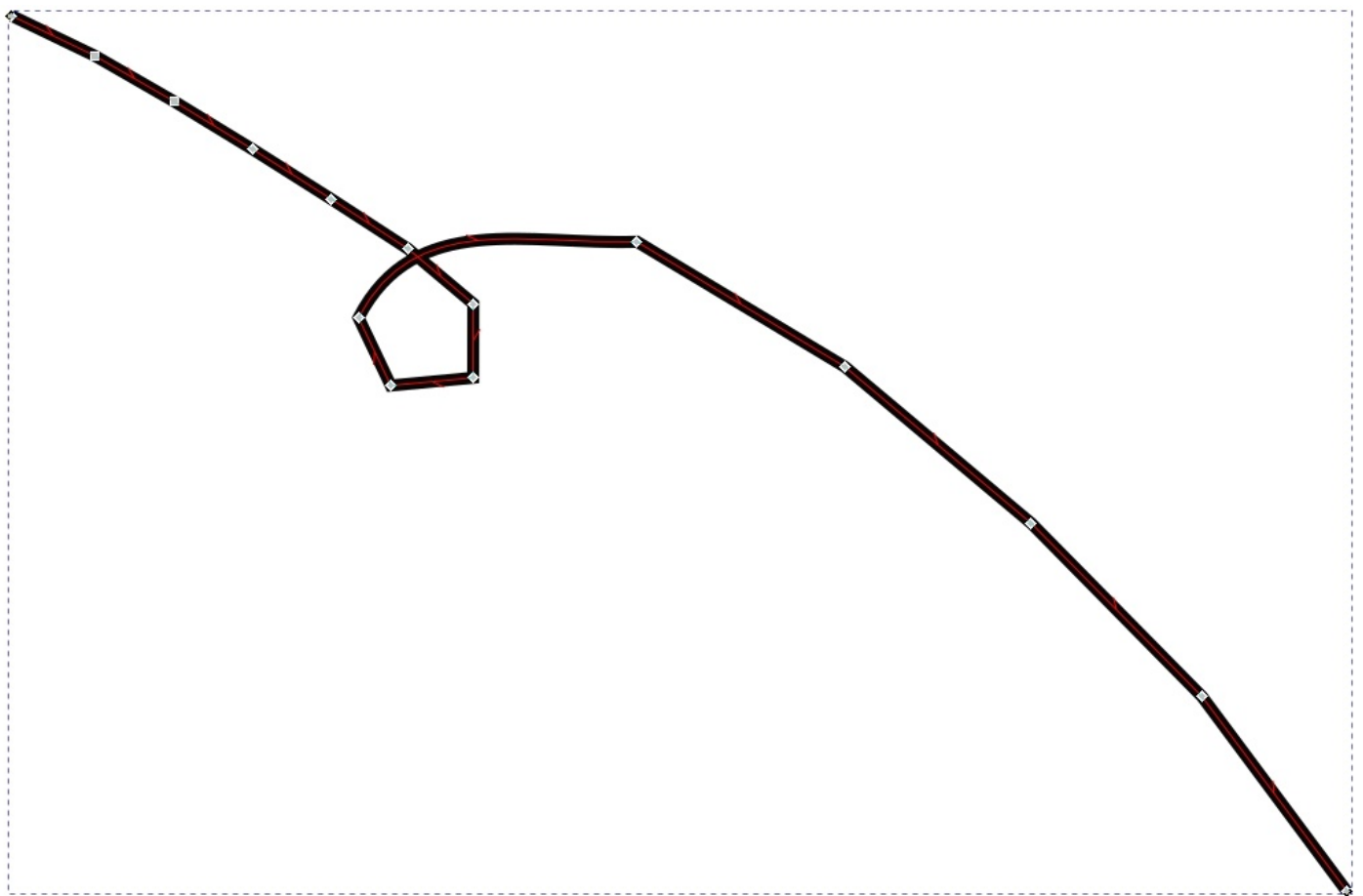
## Run the extension

(Info) The higher the flatness value the less grade of detail the new polyline will have.



## Get the result

Depending on the flatness we can get really smooth or really rough edges! Smooth paths have a lot more handles (points)!



Similar behaviour to flatten a curve can be forced by switching from to line type to curve type, but with less control for smoothness / segmentation.

