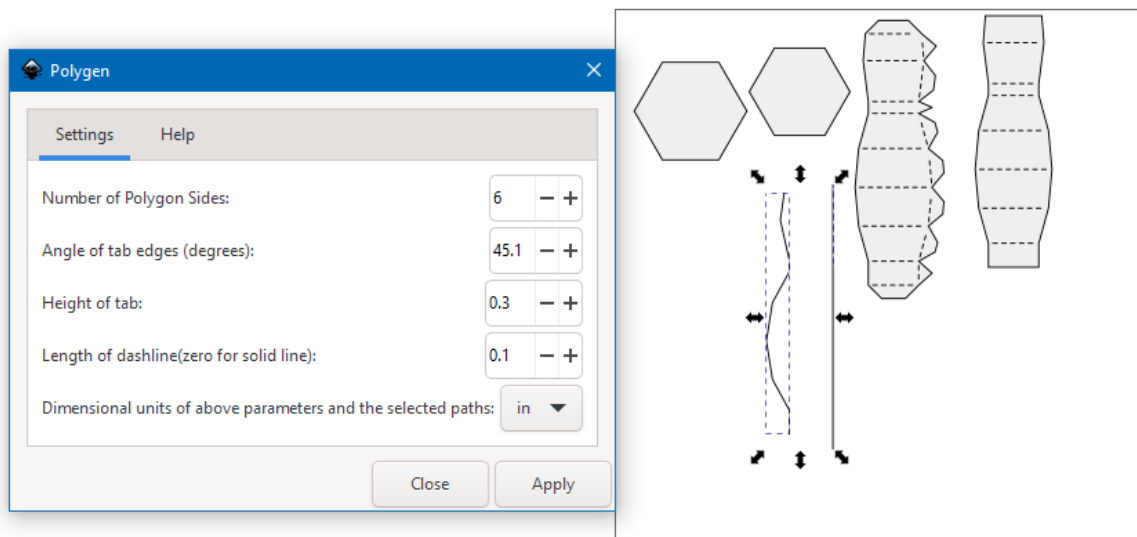**Polygen Papercraft Extension for Inkscape 1.1**

Polygen used a path and centerline provided by the user. The path is the "silhouette" of one side of the object that will be built.   Polygen rotates this path around the centerline, following a polygon. This results in a shape that can be vase-like or globe-like, or something else. These main pieces for these two examples, the vase and the apple, were formed using polygen.

 The path must be composed of straight segments, as they will be tabbed on one side and on the bottom of the object.   An untabbed piece will also be created for application as decorative paper.

There is only one side created, and it is up to the user to duplicate the side as needed.   So if polygen was run with a parameter "Number of Polygon Sides" being 6, then a total of six of the tabbed and deco/wrap pieces would be needed.

The tab angle determines the angle of the edges of the tabs. Height of tab is how much they extend from the main object.   Length of dashline is how long the individual cut lines composing the score lines are. Setting this number too large will result in missing score marks. Using zero will create solid score lines.

IMPORTANT: Be sure your dimensional units are consistent with the values you provide, and with your document.

USING THE EXTENSION

Draw your "silhouette" path and the centerline about which you want it to revolve. If you want your finished object to be 5 inches wide at its widest point, your centerline will be 2.5 inches from your widest point.   The centerline must be at least a short distance to the right of the path bounding box.

Double-check that your path is composed of only straight segments: Select it. Use the node tool (F2) and select all (Ctl A) to select all the nodes in the path. Now click on the icon for "Make selected segments lines" .

With BOTH your path and centerline selected, click on Extensions->Papercraft->Polygen

Set the parameters to what you want, and then click apply.   Your pieces should be generated.

IMPORTANT:
There are a couple of Inkscape preferences that can affect this extension.
Please insure that the following are set:

Edit->Preferences->Behavior->Transforms **Store transformation** should be set to "**Optimized**"

Edit->Preferences->Input/Output->SVG output:
        Under Path Data: **Path string format** should be **Absolute**

Installing the extension:
Download the files for this extension at
https://github.com/obzerving/Polygen

*click on the green CODE button and Download ZIP
*unzip the file you downloaded
* move the polygen.inx and polygen.py into your Inkscape extension folder
        which will be something like:
        C:\Users\USERNAME\AppData\Roaming\inkscape\extensions
***(close and) Re-start Inkscape**