<?xml version="1.0" encoding="UTF-8"?>

<!-- Comment -->

<!-- -->

<inkscape-extension xmlns="http://www.inkscape.org/namespace/inkscape/extension">

<name>GCode generator</name>

<!-- il campo ID deve essere univoco -->

<id>com.305engineering.raster2laser\_gcode</id>

<!-- Dipendenze, basta solo lo script python principale -->

<dependency type="executable" location="extensions">raster2laser\_gcode.py</dependency>

<dependency type="executable" location="extensions">inkex.py</dependency>

<!-- Nome con cui compare l'estensione nel menù, fa casino con gli underscore \_ -->

<!-- Parametri di input per lo script python che vengono visualizzati nel widget creato da inkscape-->

<!-- vengono generati in ordine di come vengono scritti -->

<!-- Titolo e descrizione -->

<param name="Title" type="description">Rasterizing for Engraving</param>

<param name="Description" type="description">created by Q-Laser CSUS</param>

<!-- Opzioni di esportazione dell'immagine -->

<param name="directory" type="string" gui-text="Export directory"></param>

<param name="filename" type="string" gui-text="File Name"></param>

<param name="add-numeric-suffix-to-filename" type="boolean" gui-text="Add numeric suffix to filename">true</param>

<param name="bg\_color" type="enum" gui-text="Replace transparency with">

<\_item value="#ffffff">White</\_item>

<\_item value="#000000">Black</\_item>

</param>

<param name="resolution" type="enum" gui-text="Resolution">

<\_item value="1">1 pixel/mm</\_item>

<\_item value="2">2 pixel/mm</\_item>

<\_item value="5">5 pixel/mm</\_item>

<\_item value="10">10 pixel/mm</\_item>

</param>

<!-- Come convertire in scala di grigi -->

<param name="grayscale\_type" type="enum" gui-text="Color to Grayscale conversion">

<\_item value="1">0.21R + 0.71G + 0.07B</\_item>

<\_item value="2">(R+G+B)/3</\_item>

<\_item value="3">R</\_item>

<\_item value="4">G</\_item>

<\_item value="5">B</\_item>

<\_item value="6">Max Color</\_item>

<\_item value="7">Min Color</\_item>

</param>

<!-- Modalità di conversione in Bianco e Nero -->

<param name="conversion\_type" type="enum" gui-text="B/W conversion algorithm ">

<\_item value="1">B/W fixed threshold</\_item>

<\_item value="2">B/W random threshold</\_item>

<\_item value="3">Halftone</\_item>

<\_item value="4">Halftone row</\_item>

<\_item value="5">Halftone column</\_item>

<\_item value="6">Grayscale</\_item>

</param>

<!-- Opzioni modalita -->

<param name="BW\_threshold" type="int" min="1" max="254" gui-text="B/W threshold">128</param>

<param name="grayscale\_resolution" type="enum" gui-text="Grayscale resolution ">

<\_item value="1">256</\_item>

<\_item value="2">128</\_item> <!-- 256/2 -->

<\_item value="4">64</\_item> <!-- 256/4 -->

<\_item value="8">32</\_item> <!-- 256/8 -->

<\_item value="16">16</\_item> <!-- 256/16 -->

<\_item value="32">8</\_item> <!-- 256/32 -->

</param>

<!-- Velocità Nero e spostamento -->

<param name="speed\_ON" type="int" min="1" max="5000" gui-text="Engraving speed">200</param>

<!-- FLIP = coordinate Cartesiane (False) Coordinate "informatiche" (True) -->

<param name="flip\_y" type="boolean" gui-text="Flip Y">false</param>

<!-- Homing -->

<param name="homing" type="enum" gui-text="Homing ?">

<\_item value="1">G28 (Standard)</\_item>

<\_item value="2">$H (GRBL)</\_item>

<\_item value="3">No Homing</\_item>

</param>

<param name="laseron" type="string" gui-text="Laser ON Command">M03</param>

<param name="laseroff" type="string" gui-text="Laser OFF Command">M05</param>

<!-- Anteprima = Solo immagine BN -->

<param name="preview\_only" type="boolean" gui-text="Preview only">false</param>

<param name="p\_only" type="description">If "Preview only" is true the gcode file will not be generated.</param>

<!-- Per togliere la casella Antepima diretta bisogna sostituire <effect> con <effect needs-live-preview="false"> -->

<!-- <effect> -->

<!-- <effect needs-live-preview="false"> -->

<effect needs-live-preview="false">

<object-type>all</object-type>

<!-- Dove comparirà lo script all'interno del menù estensioni -->

<!-- " Estensioni => CSUS Q-Laser => prova\_estensione " -->

<effects-menu>

<submenu name="CSUS Q-Laser"/>

</effects-menu>

</effect>

<!-- Script python da eseguire -->

<script>

<command reldir="extensions" interpreter="python">raster2laser\_gcode.py</command>

</script>

</inkscape-extension>