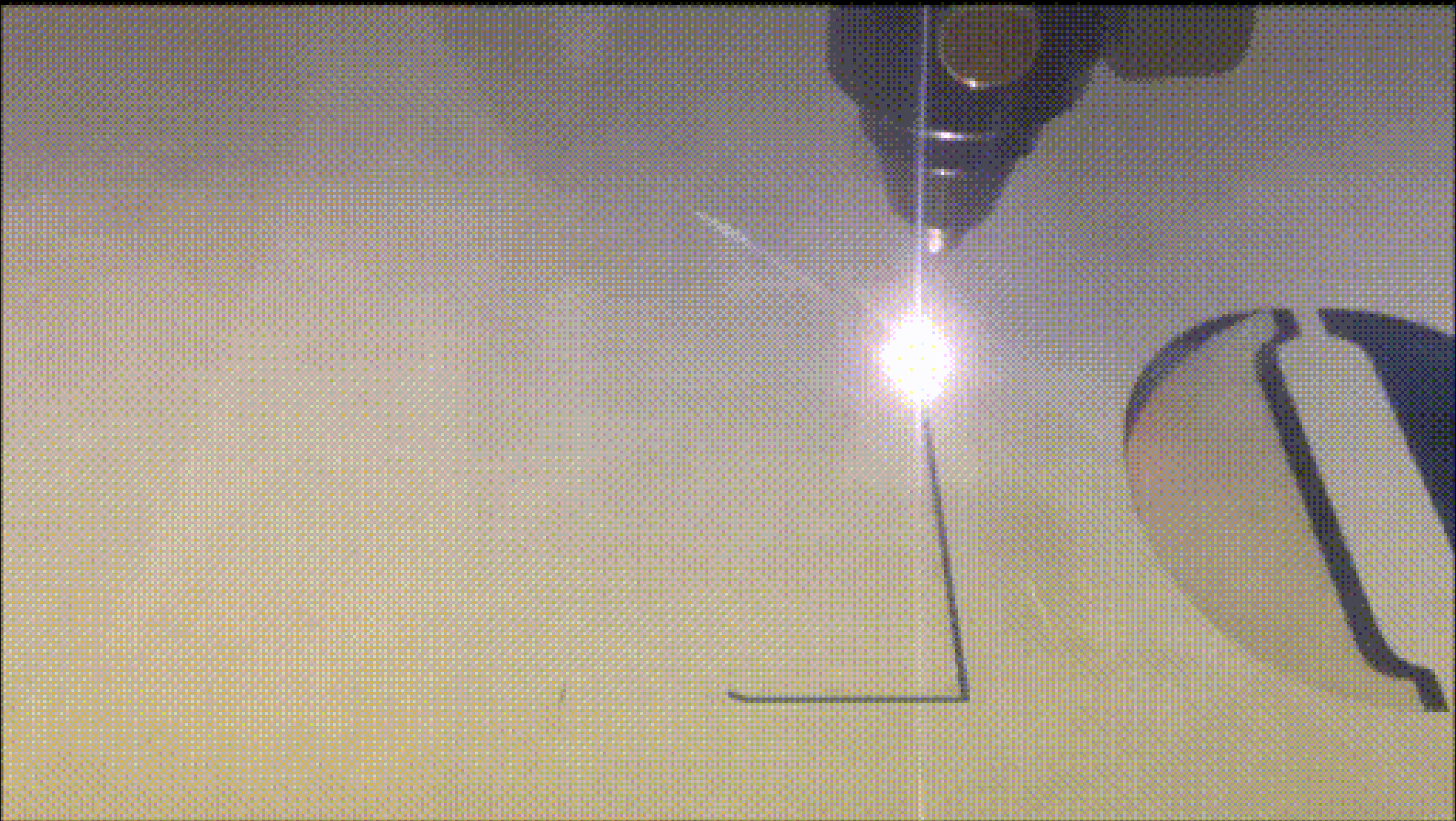
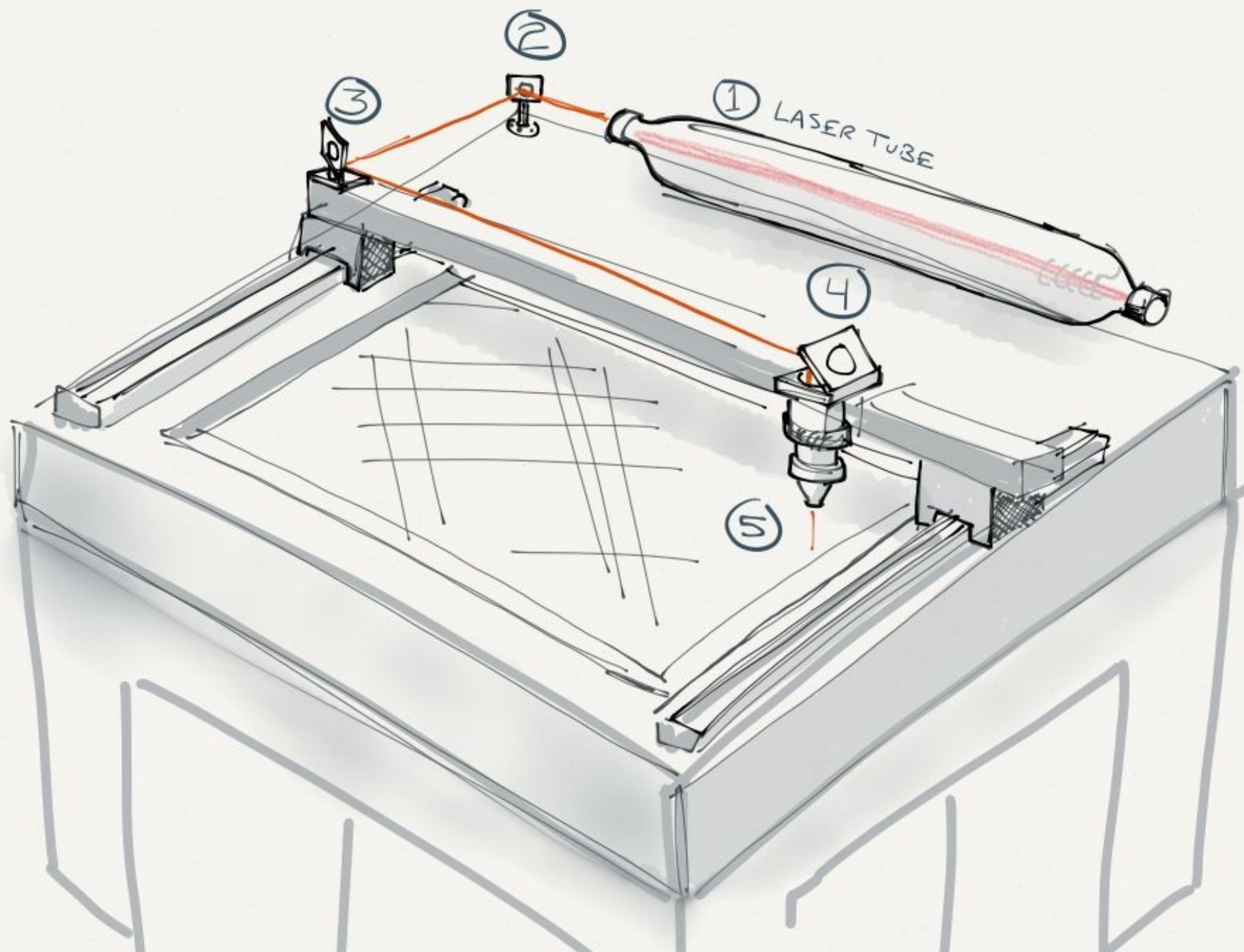
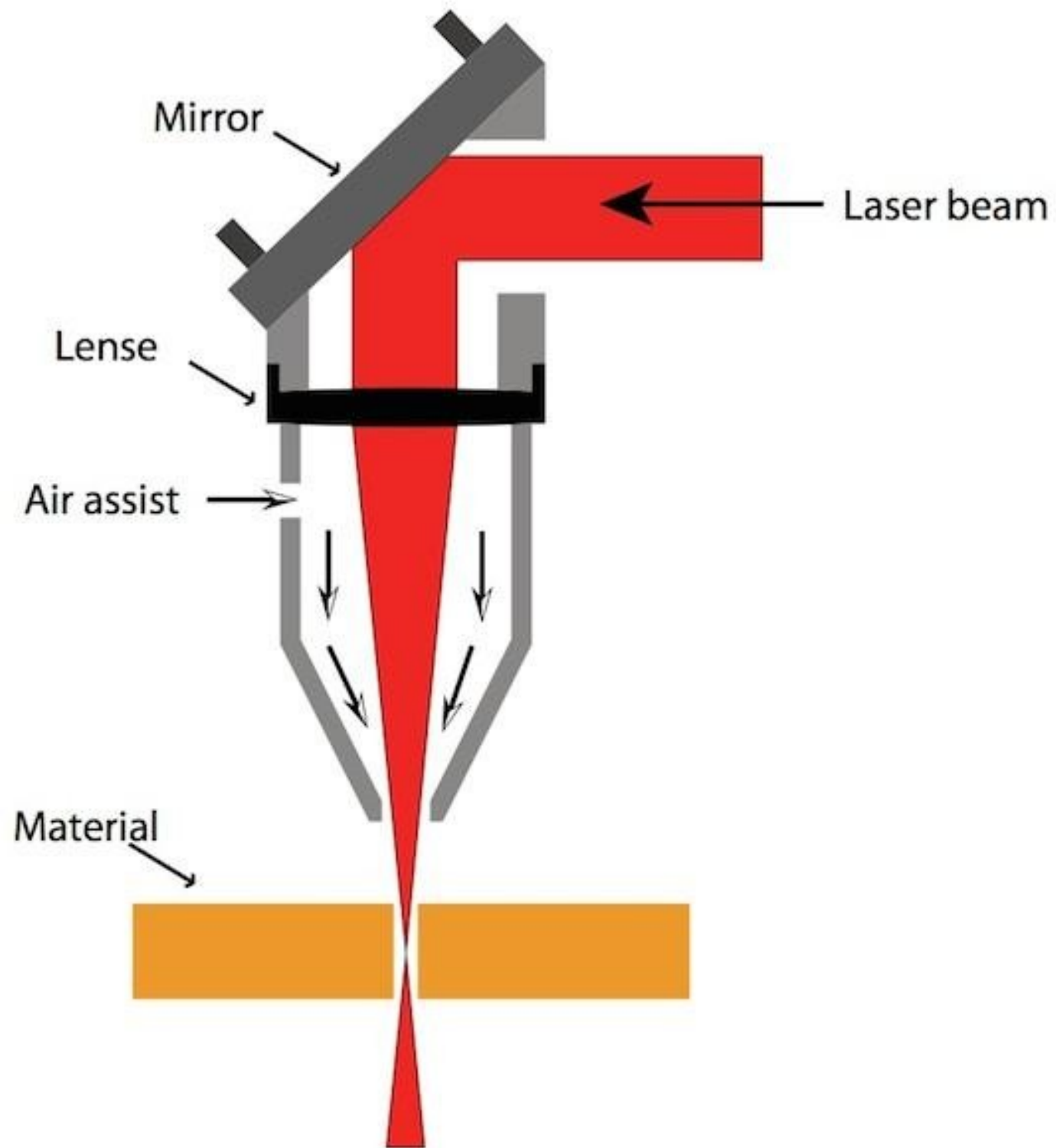


Laser Cutter Training









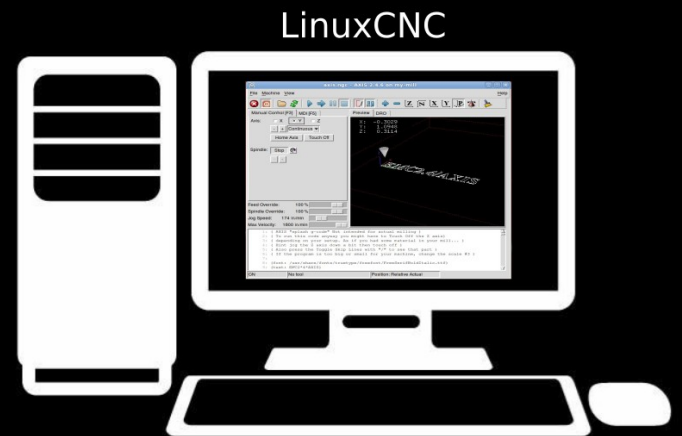


as small as possible





moonraker2.knoxfmakers.org



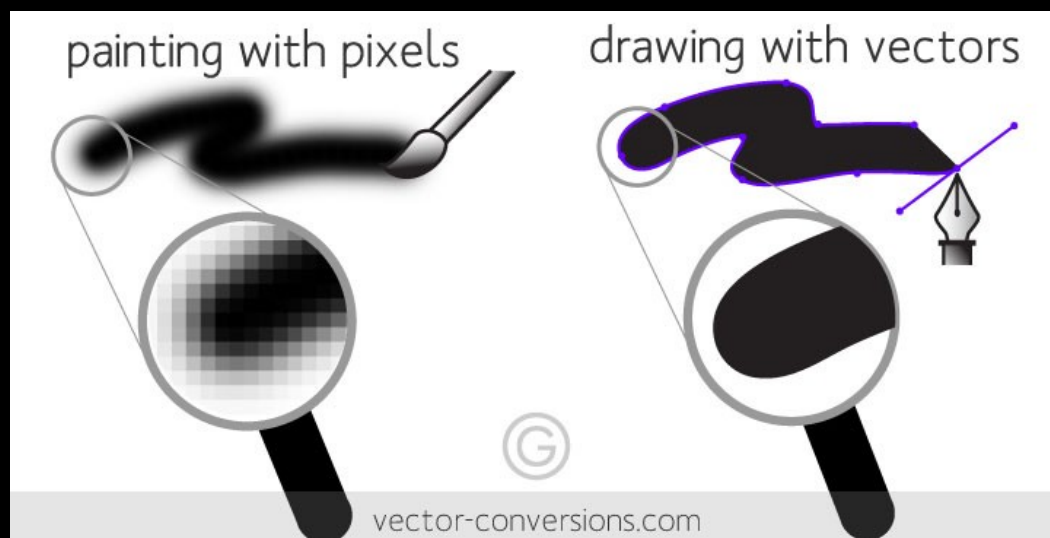
Raster vs. Vector

Raster

- Made of pixels arranged to form an image
- Does not scale
- .jpg, .png, .gif, .bmp
- Gimp, Photoshop

Vector

- Made of paths dictated by mathematical formulas
- Scales infinitely
- .svg, .ai, .cdr
- Inkscape, CorelDraw, Illustrator





Click “New Document”

Transform (Shift+Ctrl+M)

Move Scale Rotate Skew Matrix

Horizontal: 0.000 mm

Vertical: 0.000

☒ Relative move

☒ Apply to each object separately

Clear Apply

Align and Distribute (Shift+Ctrl+A)

Align

Relative to: Last selected

Treat selection as group: ☐

Distribute

Rearrange

Remove overlaps

H: 0.0 V: 0.0

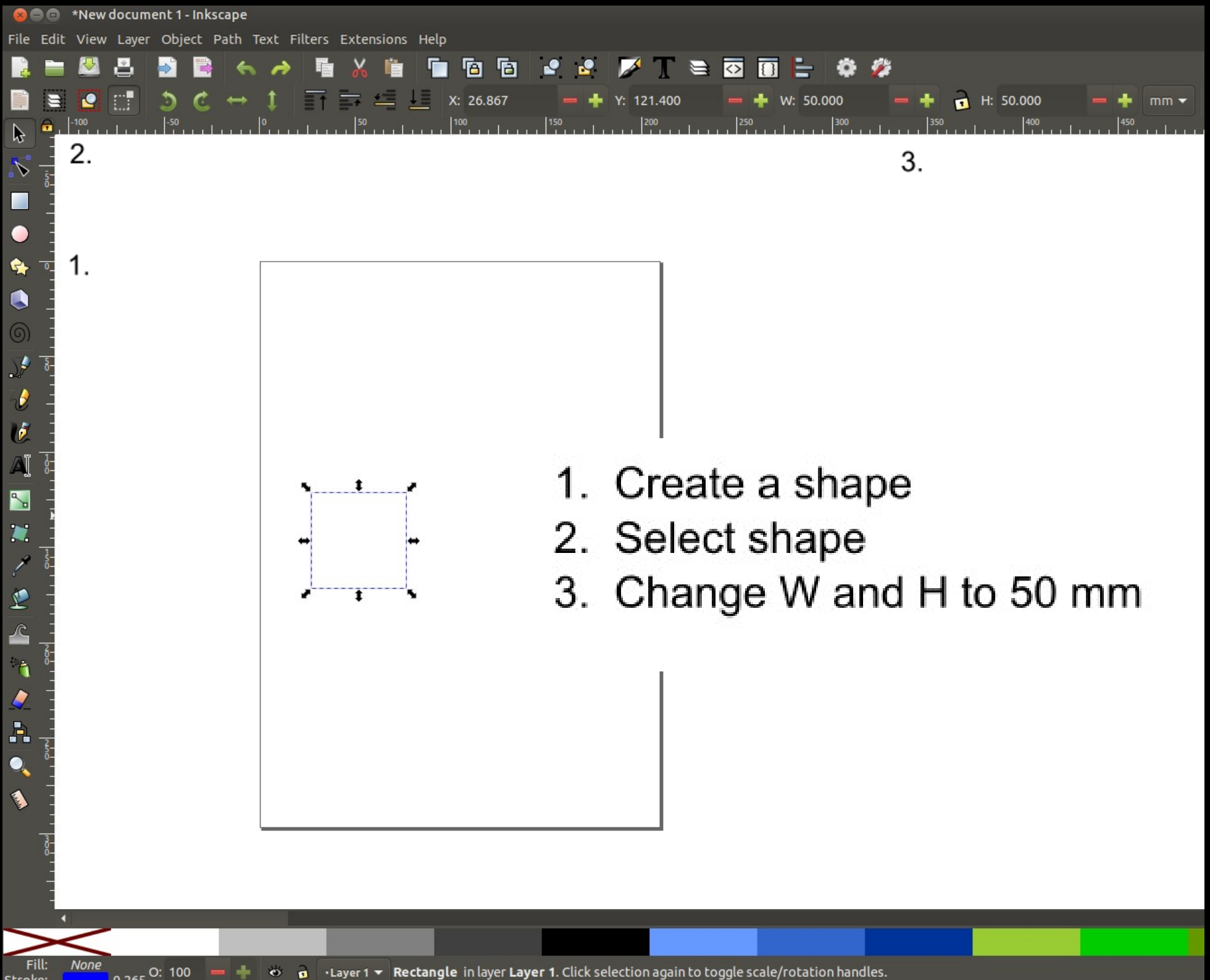
Nodes

Relative to: Middle of selection

Fill and Stroke (Shift+Ctrl+F)

Fill Stroke paint Stroke style

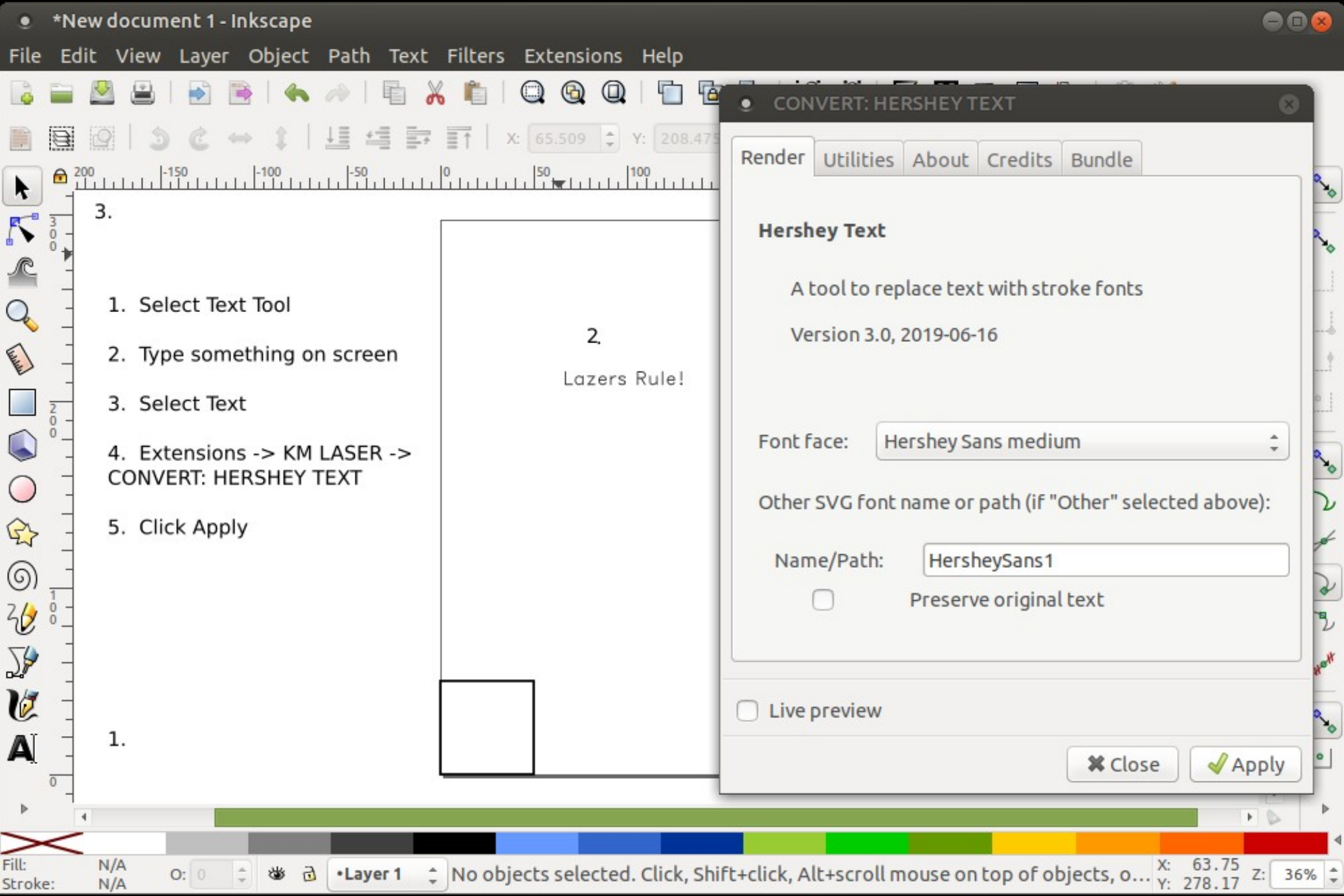
× [color swatches] ? [help] [undo] [redo]

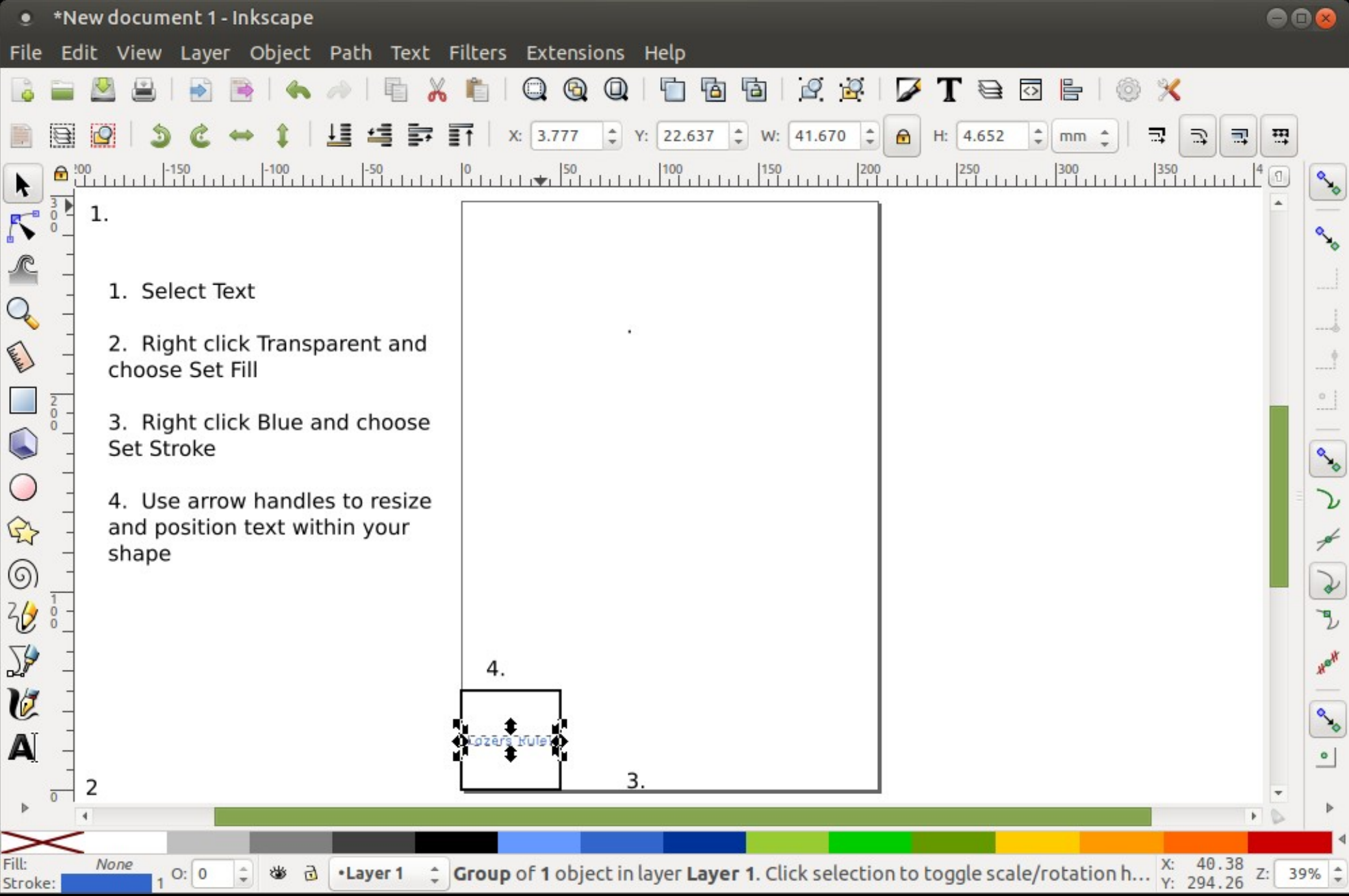


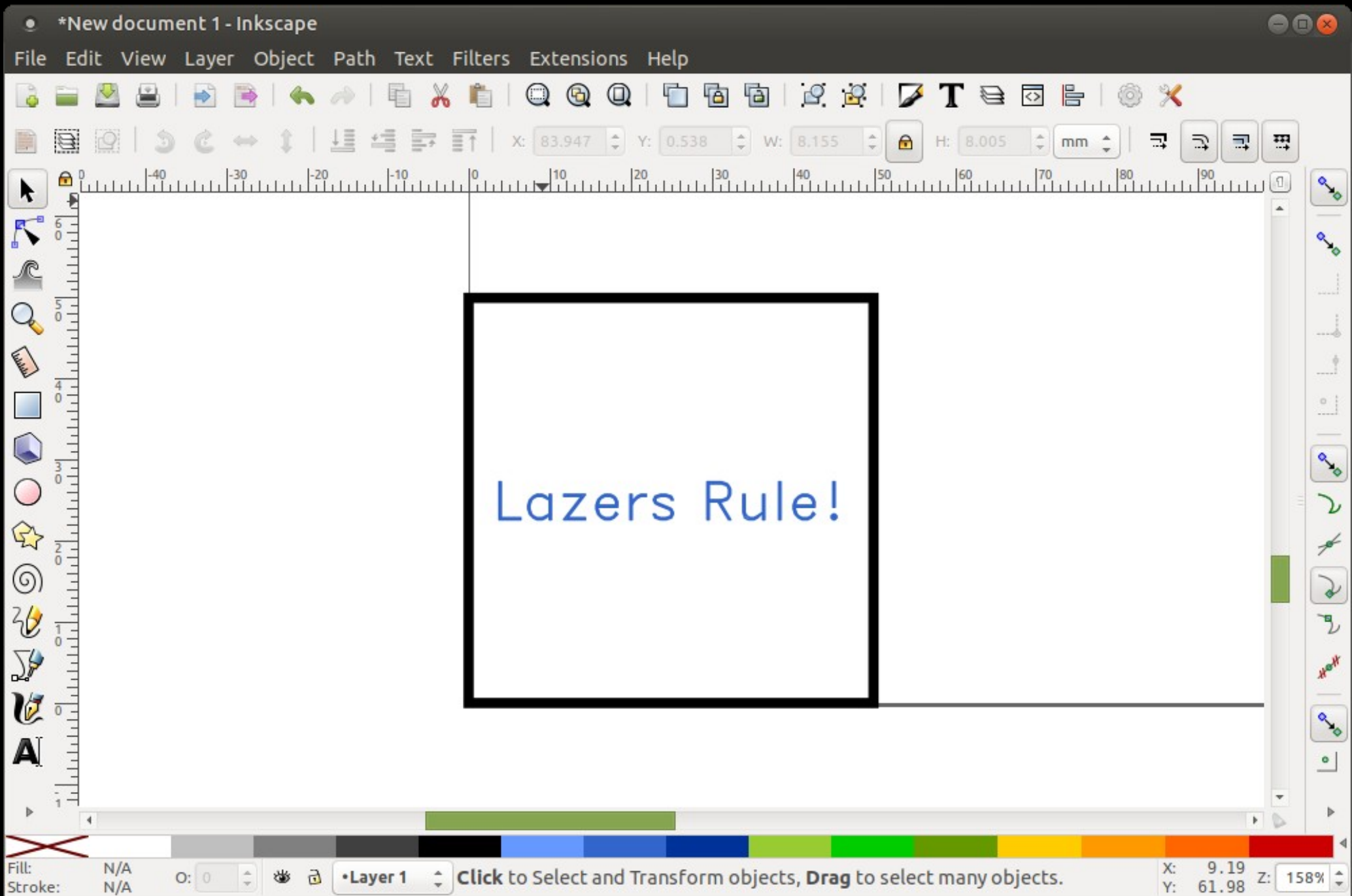


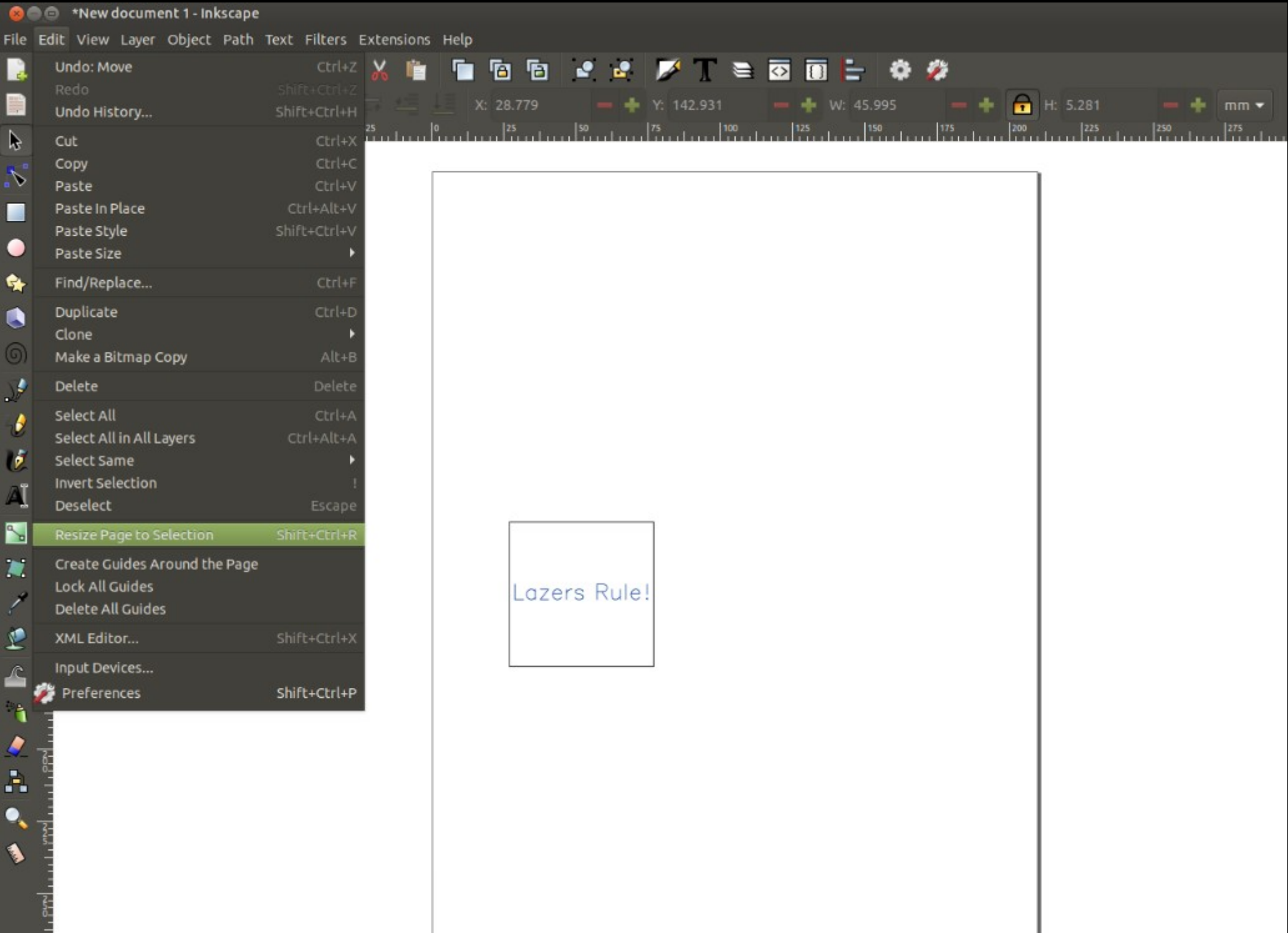
2. Right click on Black and choose "Set Stroke"

2



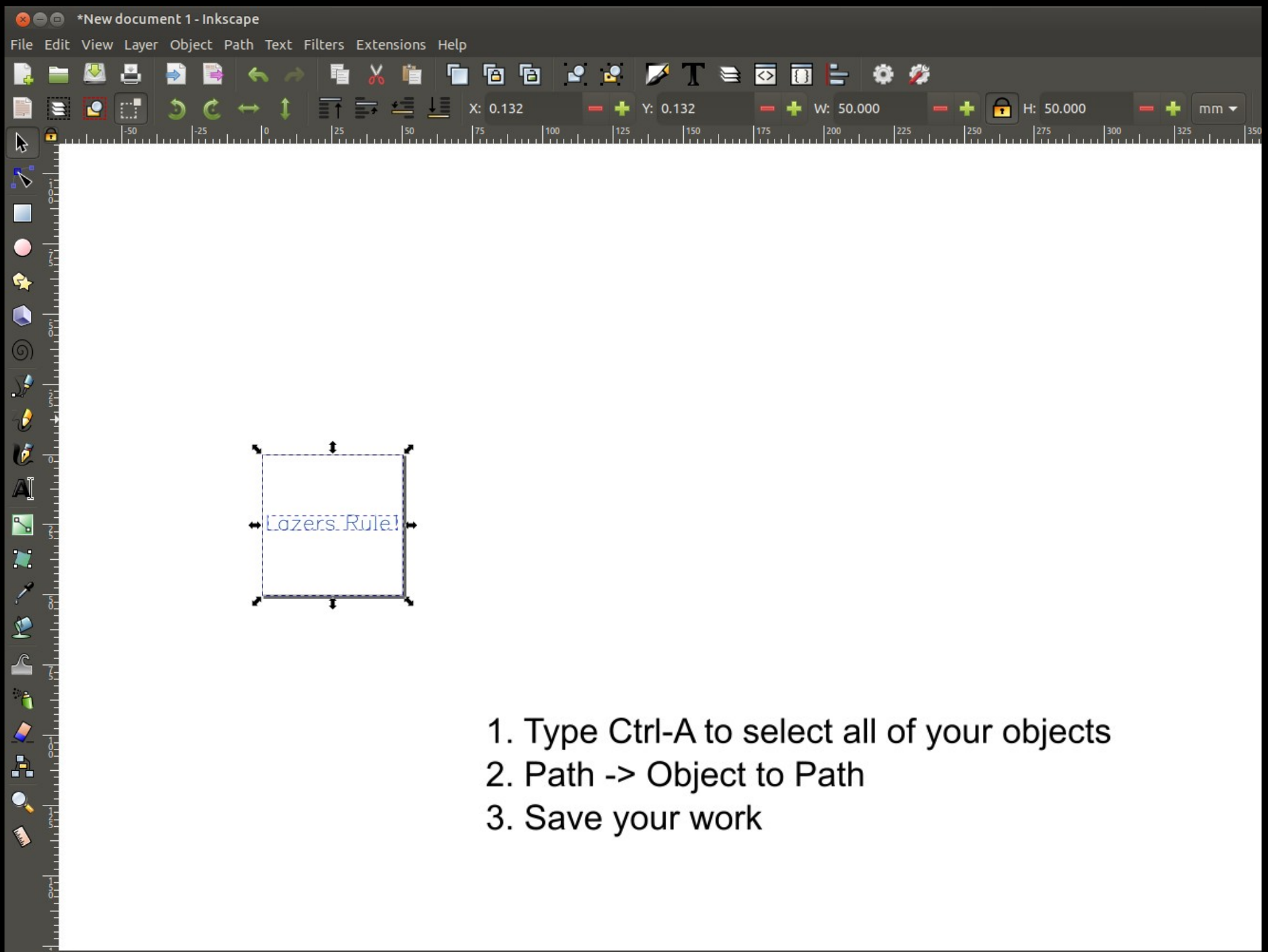






- Undo: Move Ctrl+Z
- Redo Shift+Ctrl+Z
- Undo History... Shift+Ctrl+H
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Paste In Place Ctrl+Alt+V
- Paste Style Shift+Ctrl+V
- Paste Size ▶
- Find/Replace... Ctrl+F
- Duplicate Ctrl+D
- Clone ▶
- Make a Bitmap Copy Alt+B
- Delete Delete
- Select All Ctrl+A
- Select All in All Layers Ctrl+Alt+A
- Select Same ▶
- Invert Selection !
- Deselect Escape
- Resize Page to Selection Shift+Ctrl+R
- Create Guides Around the Page
- Lock All Guides
- Delete All Guides
- XML Editor... Shift+Ctrl+X
- Input Devices...
- Preferences Shift+Ctrl+P

Lasers Rule!



1. Type Ctrl-A to select all of your objects
2. Path -> Object to Path
3. Save your work



- Open Firefox
- Navigate to moonraker2.knoxmakers.org:1337

TracyHomer



Jobs



New Folder



Upload

TIME

SIZE





VECTOR SETTINGS

RASTER SETTINGS

Baltic Birch [3mm]

Pass	Stroke	Preset	Feedrate	Power
1		CUSTOM		
2		CUSTOM		
3		CUSTOM		

 ADD PASS



VECTOR SETTINGS

RASTER SETTINGS

Baltic Birch [3mm]

Pass	Stroke	Preset	Feedrate	Power
1		ENGRAVE	2100 	10  %
2		CUT	1500 	50  %
3		CUSTOM		 %

 ADD PASS Cancel Upload

[← Back](#)

drawing.svg.vector_0001.ngc

[✎ Rename](#)[📄 Download ▾](#)

```
1 %
2 (Header)
3 G21 (All units in mm)
4 G64 P.001 Q.001
5 G01 Z-0.000001 F10000
6 S10000
7 M156
8 (/Header)
9
10
11 (pass = 1, stroke = #003399, feed = 2100, power = 0.16)
12 F2100
13 M68 E0 Q0.16
14 (start path: path11)
15 M64 P0
16 M5
17 G00 X46.595240 Y34.722845
18 M3
19 M62 P0
20 G01 X46.595240 Y24.364659 Z-0.001000
21 M64 P0
22 M5
23 G00 X46.595240 Y20.685393
24 M3
25 M62 P0
26 G01 X46.360943 Y19.947197 Z-0.001000
27 G01 X46.595240 Y19.209000 Z-0.001000
28 G01 X46.829536 Y19.947197 Z-0.001000
29 G01 X46.595240 Y20.685393 Z-0.001000
30 (end path: path11)
31 (start path: path10)
32 M64 P0
```

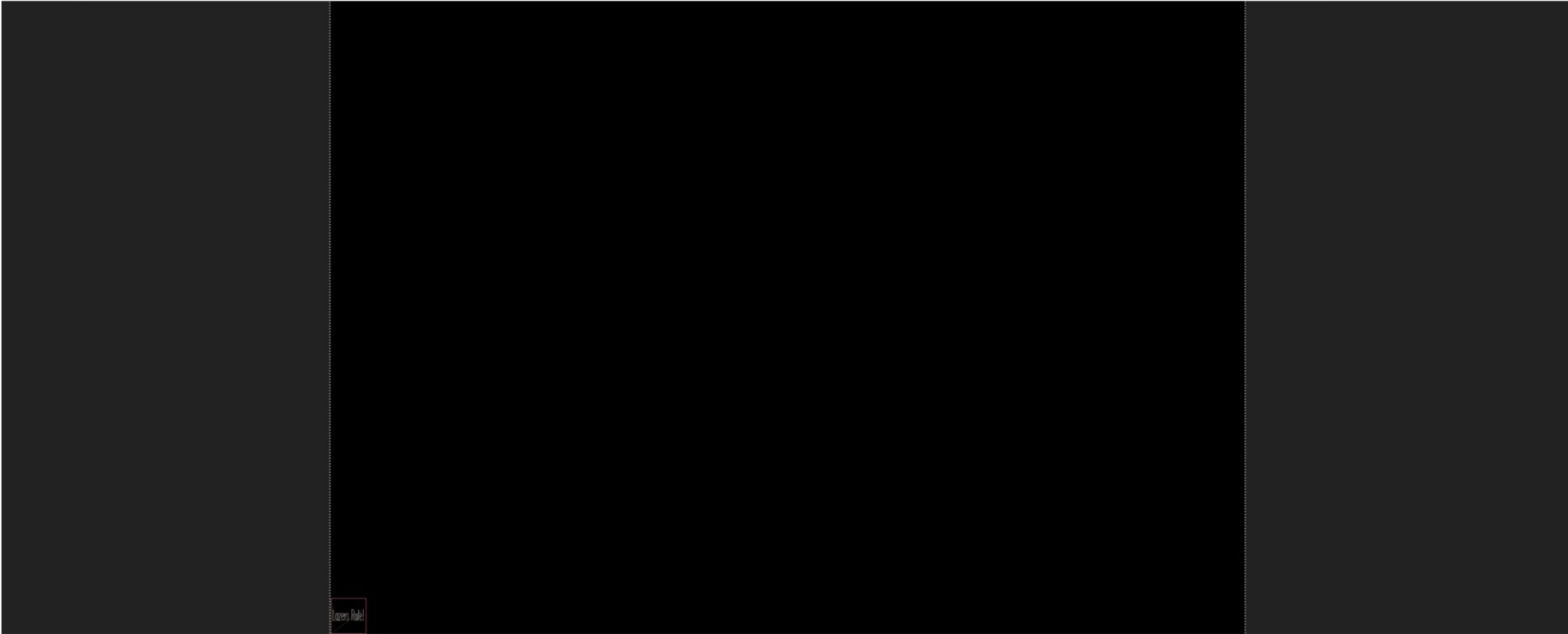
[📁 Save](#)

← Back

drawing.svg.vector_0001.ngc

✎ Rename

📄 Download ▾



Laser Cutter Training

