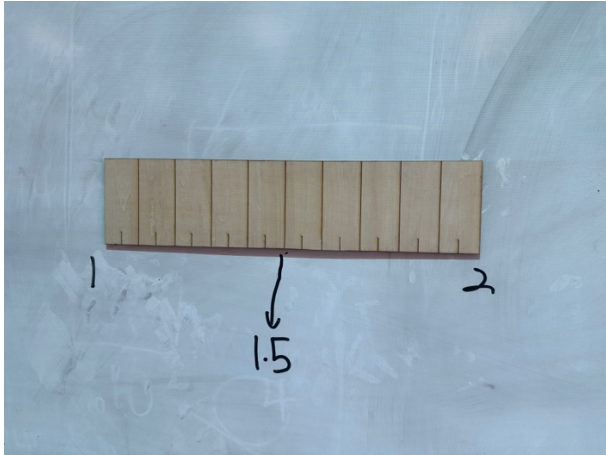


Magnetic Number Bars

Introduction



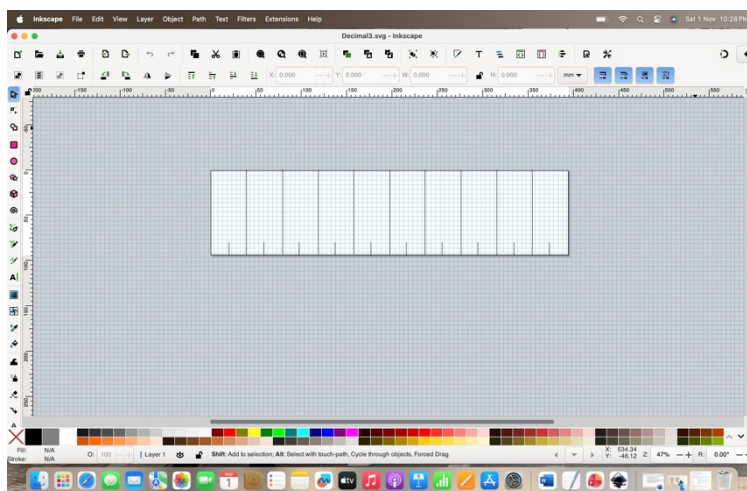
This magnetic bar can be used on the whiteboard. Numbers can be written below or above the vertical engraved lines. Each magnetic bar is divided into 10 parts. Each part can represent one-tenth of a whole if it is used for decimals. It can represent one-hundredth of a part if it is used between 3.7 and 3.8 or one-thousandth of a part between 4.56 and 4.57. Apart from decimals, it can be used for fractions and numbers.

Process of making the magnetic number bars

1. Design the number bar using Inkscape (Refer to attached file, Decimal3.svg)

Open the file using any vector graphic or design software such as:

- Inkscape
- Adobe Illustrator
- CorelDraw



2. As I am using Lionsforge laser cutter, I have to generate the code online and assign the engrave path. The screenshot below shows the laser code for cutting the plywood 3mm. It may serve as a reference if using other laser cutters. Please bear in mind that if using other materials, the code will be different.

CRAFTLASER MK2 LASER CODE GENERATOR
By LIONSFORGE

☐ Flip Y-axis ☒ Bidirectional Rastering

Start Code:
G28XY
G90

End Code:
G28XY ; laser off

Laser On Cmd:

Laser Off Cmd:

Cutting Power (0-255):

Engrave Power (0-255):

Raster Power (0-255):

Raster Rate (mm/min):

Overscan (mm):

Feed Rate G1 (mm/min):

Travel Rate G0 (mm/min):

☐ Enable Rotary Axis Mode

Material Presets:

Loaded: Basswood 3mm - Soft wood, cuts easily

<

Generate G-code .gcode Download G-code Overlay G-code Paths Auto Center SVG

Scale PX+MM (+3.78) Park Bottom Left

Delete Path Assign Engrave Path Assign Raster Path Undo

3. The screenshot below shows the cutting part (red lines) and engraved parts (orange lines which are assigned)



4. After generating and downloading the code, the file is saved as .gcode and sent for cutting.
5. I paste the magnetic strips behind so that I can use on the whiteboard.

