Interactive Monster

Step by step instructions

Process overview

- Step 1: Draw your Monster
- Step 2: Prepare the files
- Step 3: Laser cutting
- Step 4: Sew & integrate the circuit

Step 1: Draw your Monster

- Your monster must be bigger than 50x65mm (RGB circuit size)
- You can use existing monsters or character to inspire you.
- You can create your monster by assembling simple geometric shapes.
- By using Menu > Path > Union, you can assemble your composition of shapes.

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Interactive Monster Create your textile character and make it shine the color you want! Step 2 **MONSTER** CONCEPTION

Materials & Tools

Materials

- E 14
- ▶ Wool
- Sewing needle
- ▶ RGB Circuit









- Computer with the Inkscape Program
- Laser cutter (or scissors)

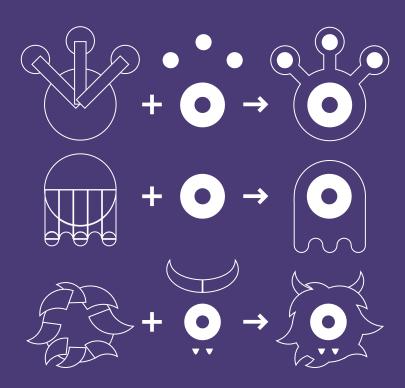












Step 2: Prepare the files

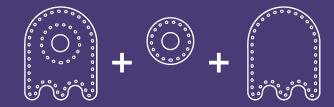
Draw the silouette of each part composing your monster, as an exemple:



Using the Linked Offset tool in Inkscape, in Menu > Path >
Linked Offset, then create a dotted line with the stroke menu :



- You can adapt the dots size using the Width parameter and the type of dashes in the Stroke Style menu.
- Select the dotted lines then click on Menu > Path > Stroke to path:



- Select all your shapes and modify the stroke size to 0.01 mm
- Finally, save your work as a .PDF file in the folder specified by your instructor.

Step 3: Laser Cutting

 Your instructor will show you how the laser cutter machine is used to cut the files you prepared

Step 4: Sew & integrate the circuit

- Using the wool and the sewing needle, we are going to sew the felt pieces.
- ▶ Don't forget to integrate your circuit in the monster.
- It is easier to begin to sew the external parts, for exemple, the eye first, then the body.



It's alive!