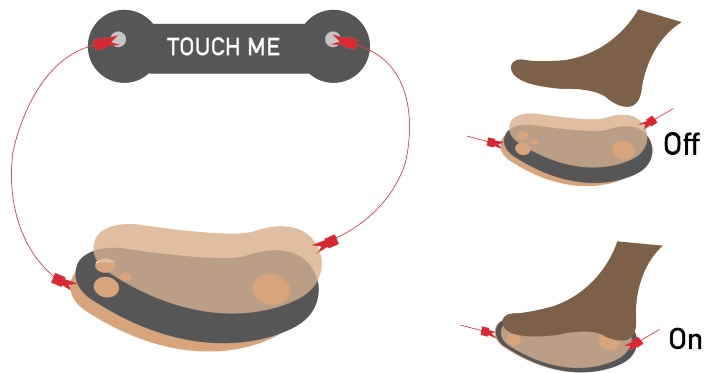
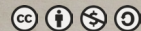


How it works?



As the area of touch and intensity changes, the sound changes too.

shemakes



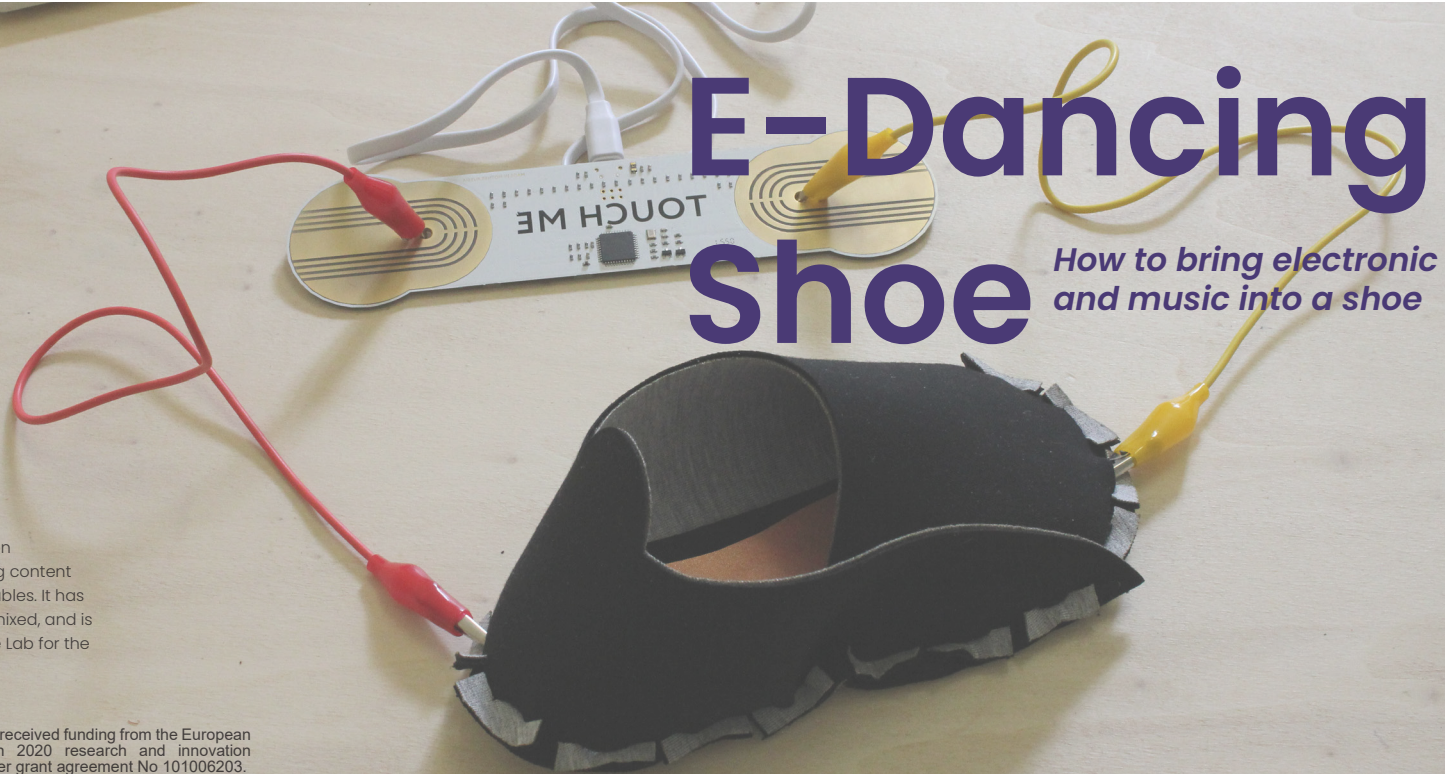
This manual is based on Fabricademy's learning content of e-textiles and wearables. It has been adapted and remixed, and is developed by Le Textile Lab for the SHEMAKES project.



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E-Dancing Shoe

How to bring electronic and music into a shoe



Materials & Tools



Materials

- ▶ Neoprene textile
- ▶ Conductive fabric
- ▶ Board Playtronica Touch me
- ▶ Paper
- ▶ Tape

Tools

- ▶ Electric wires
- ▶ Multimeter
- ▶ Pen
- ▶ Scissors
- ▶ Lasercut

E-Dancing Shoe

Step by step instructions

Process overview

- ▶ Step 1: Make the sole
- ▶ Step 2: Prototype the shoe with paper
- ▶ Step 3: Vectorize & lasercut the shoe pattern
- ▶ Step 4: Assemble the shoe
- ▶ Step 5: Plug the board
- ▶ Danse !

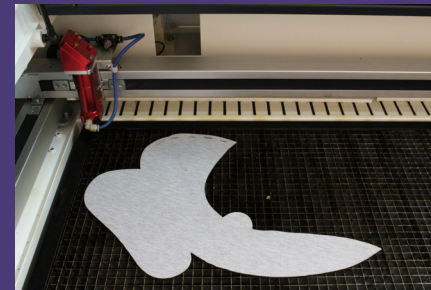


Step 1: Make the sole

- ▶ Draw the shape of the feet onto paper and cut it with scissors.
- ▶ Test the material's conductivity with the multimeter
- ▶ With the help of the paper pattern sole, cut 2 soles with conductive textile and one with neoprene.
- ▶ Cut some holes in the neoprene one.

Step 2: Prototype the shoe with paper

- ▶ Draw the shape of the dancing shoe.
- ▶ Prototype first with paper and scissors.
- ▶ Don't forget the notches ! How to attach the shoe

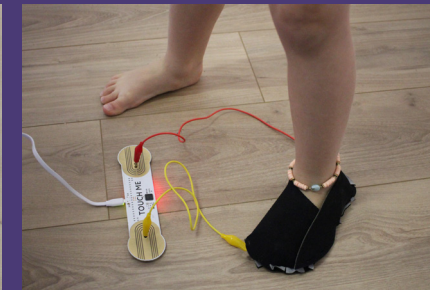


Step 3: Vectorize & lasercut the shoe pattern

- ▶ Take a picture of the shoe. With the help of a facilitator, vectorize the drawing with a vector software.
- ▶ Laser cut the shoe with the help of a facilitator or cut it with scissors.

Step 4: Assemble the shoe

- ▶ Insert the notches to assemble the shoe
- ▶ Create a sandwich with the neoprene sole in between the two conductive soles.
- ▶ Insert the soles into the shoe.



Step 5: Plug the board

- ▶ Plug the first wire on the top conductive sole and connect it with one side of Playtronica.
- ▶ Plug the second wire on the bottom conductive sole and connect it with the other side of the Playtronica.
- ▶ It's ready !