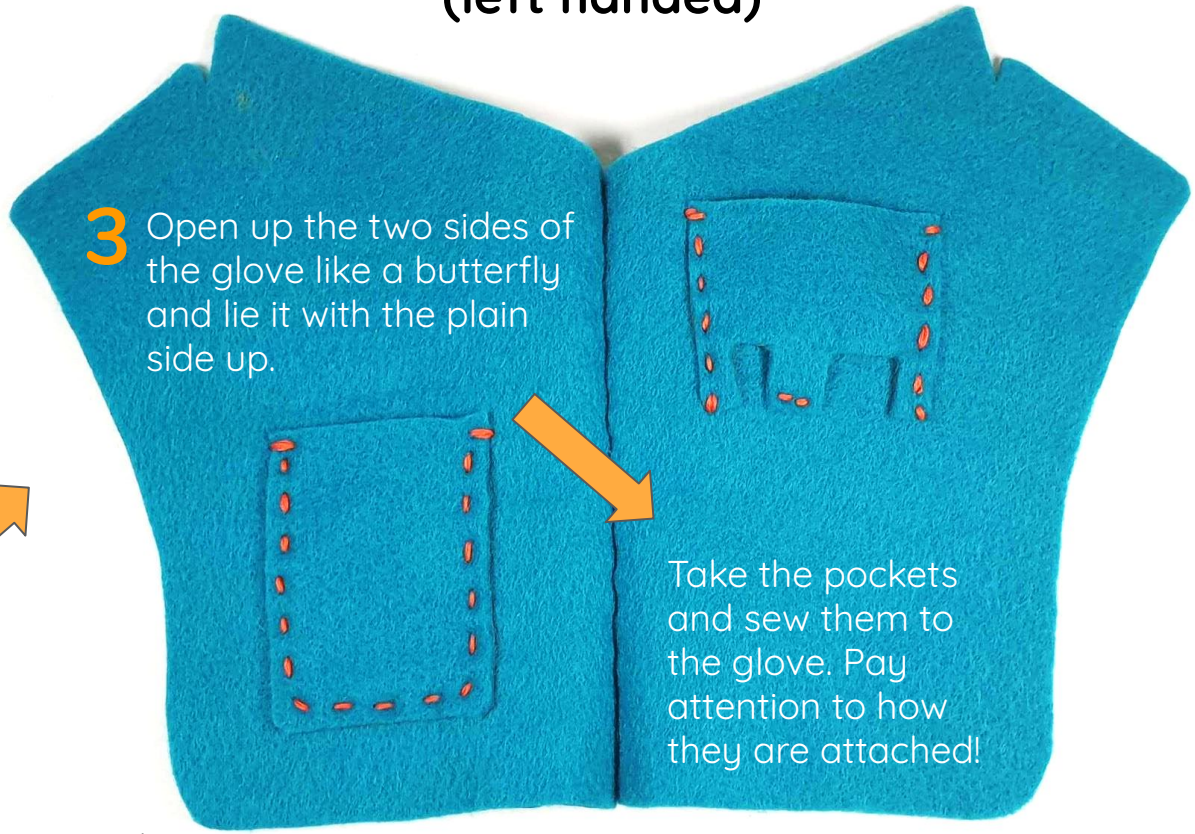
Making the glove

(left handed)

1 Thread your needle and make a knot.

2 Place the two sides of the glove on top of each other, printing side out, and use running stitch to sew them together down one edge, like in this photo. Tie a knot at the end of the stitching then snip the thread..



3 Open up the two sides of the glove like a butterfly and lie it with the plain side up.

Take the pockets and sew them to the glove. Pay attention to how they are attached!

4 Fold your glove back together, with the pockets on the inside. Finish the glove by sewing a little V to separate the thumb (circled in the photo) and tie off the thread. Finally, sew down the other side and knot it off securely.

Turn your glove inside out like you would with a sock, so the pockets are on the outside. Try it on and secure any loose stitching. Happy? You're ready to wire!

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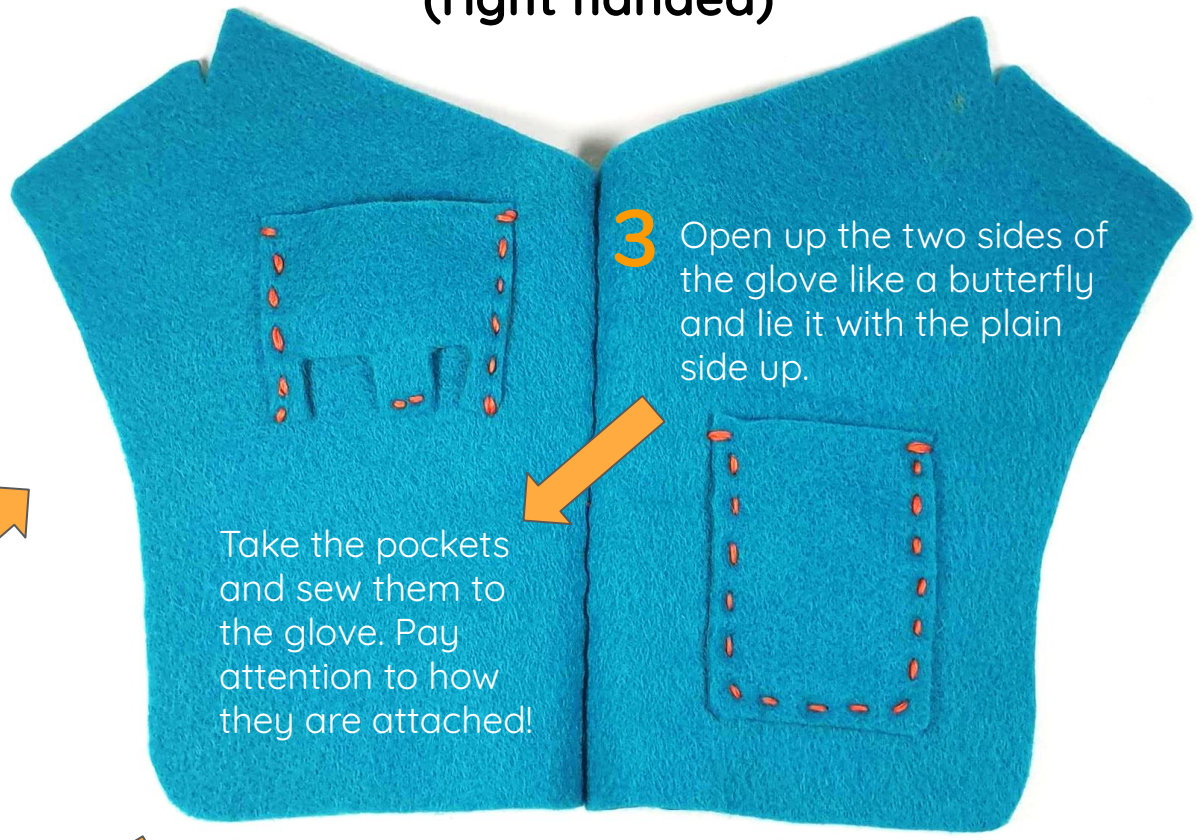

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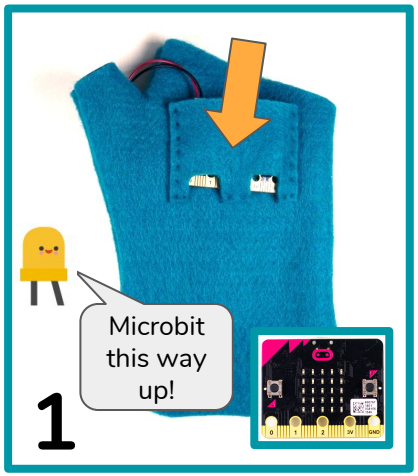
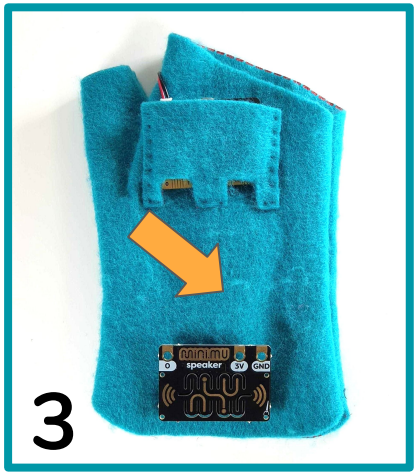
mini.mu wiring



Connect the micro:bit to the battery pack, and then tuck it into the pocket with the holes, buttons and LED facing you..

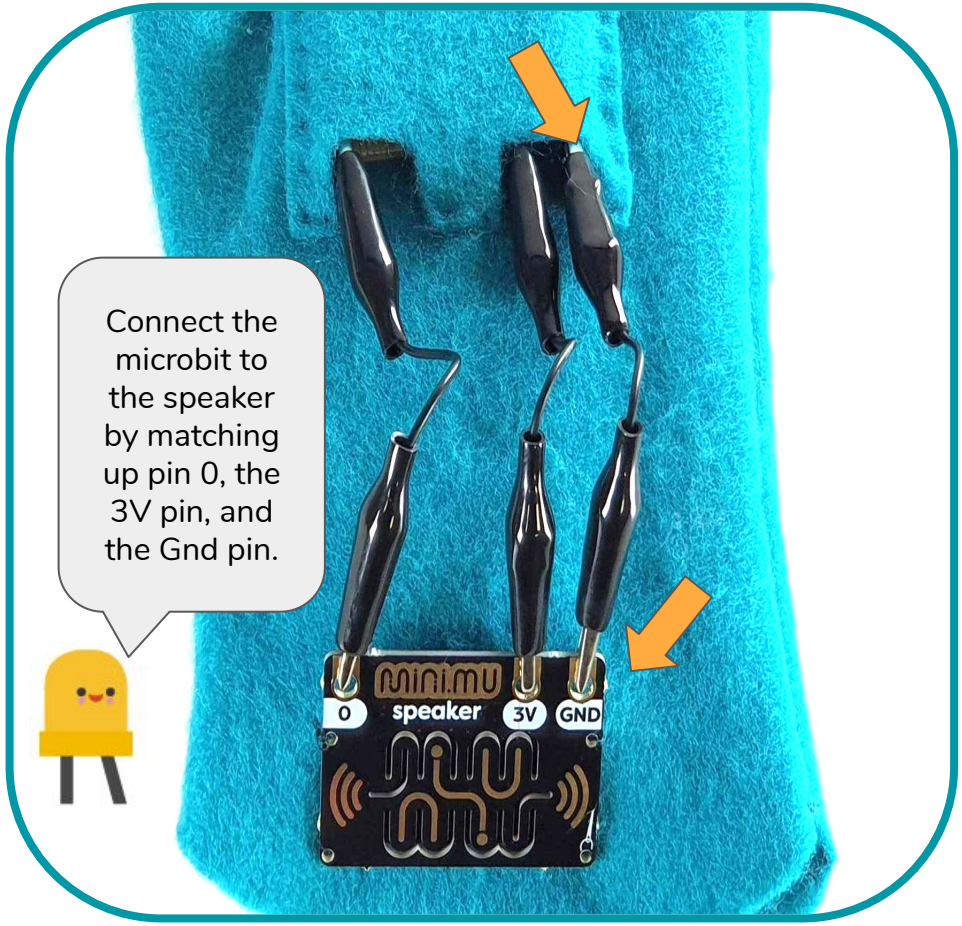
Turn the glove over and tuck the battery pack into the narrow pocket.



Lie the speaker on the glove with the writing facing up.. You can sew it on now.

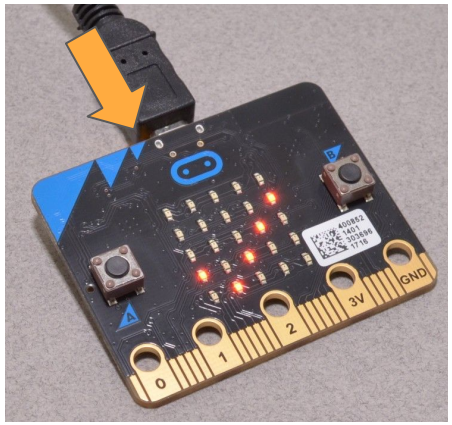
Sew the speaker to the glove with four little stitches through the holes around the edge.

The trickiest bit of this is sewing the speakers on to the glove - just ask for help if you get stuck! A knotted loop works best.



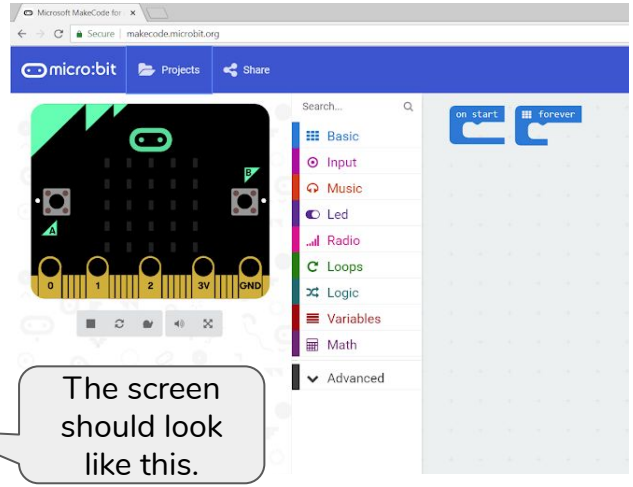
mini.mu code

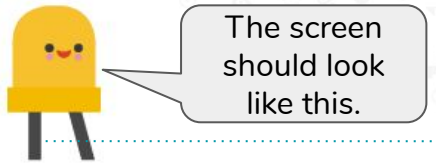
1. Disconnect your battery pack and then gently push your micro:bit USB cable into the silver slot on the top of the micro:bit. Plug the other end of the cable into your computer.

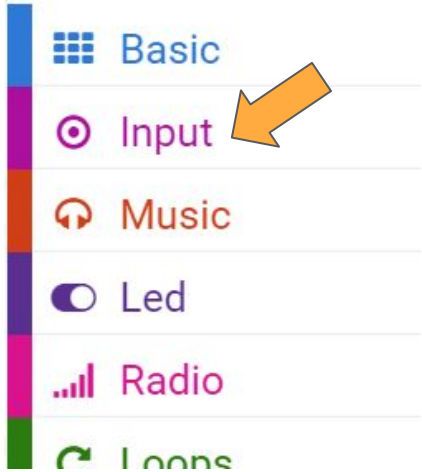


2. On your computer, go to your web browser and type in this web address:

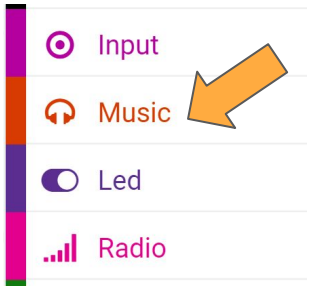
makecode.microbit.org



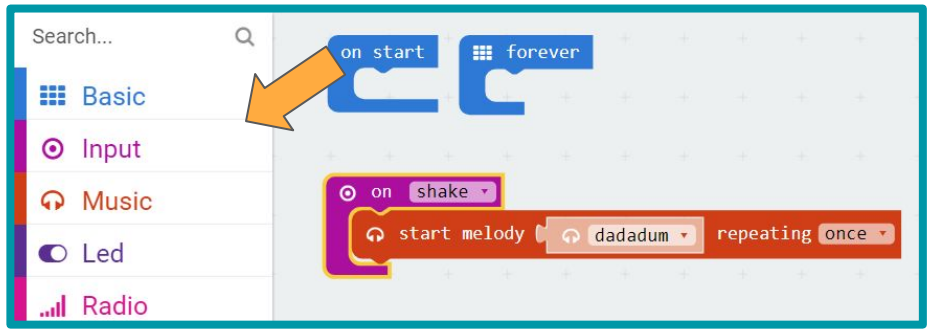




3. Click on the purple part of the menu that says “input”, then choose “on shake” and drag the block into the grey coding area.



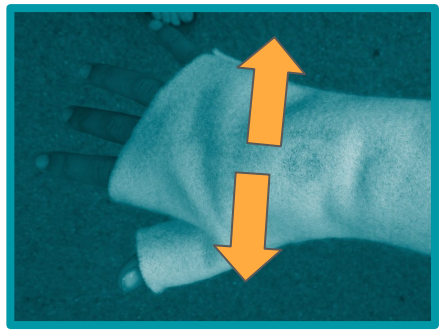
4. Click on the orange part of the menu that says “music”, then choose”start melody” and drag it into the gap on the purple block.



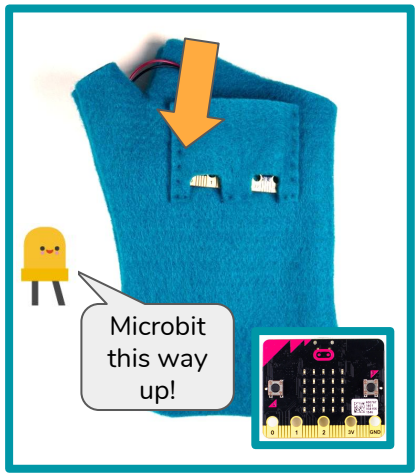
5. Tidy up your screen by dragging the two blue blocks that you don’t need (“on start” and “forever”) back to the menu.

6. Click on the big download button, and save the file to the micro:bit drive. This saves the code to the micro:bit.

7. Unplug the USB cable from the micro:bit and plug in your glove’s battery pack. Put the glove on and shake your hand about. What happens?

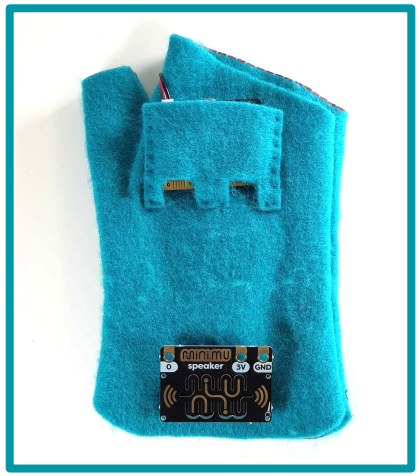


troubleshooting



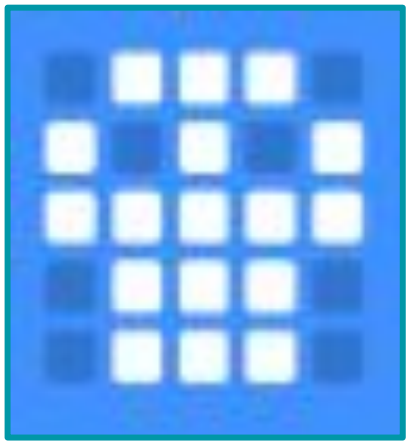
Did you put your micro:bit in the pocket the right way up?

Are the batteries switched on?

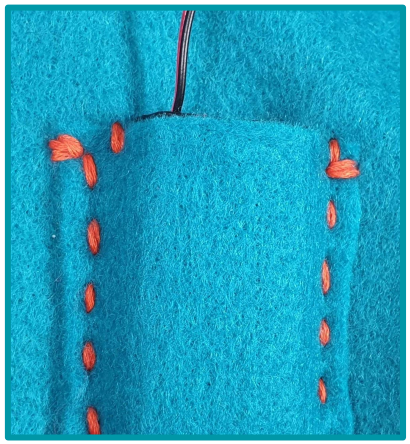


Are you getting a low buzzing noise? This means your speaker is badly connected.

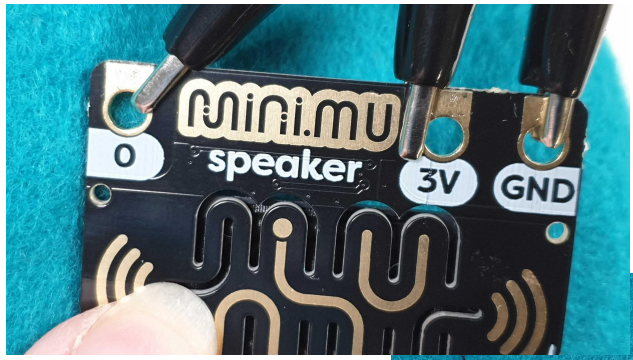
Did your program load correctly? Check for error codes in red on the micro:bit LEDs.



Add icons to your program so you can peep in the pocket to see if the gesture is working, even if the sound isn't.



Is your battery pack falling out? The pocket may not be sewn tight enough. Add some stitches like this.



Are the leads touching? This will stop things working. Re-position them so they are centred on the right pins.