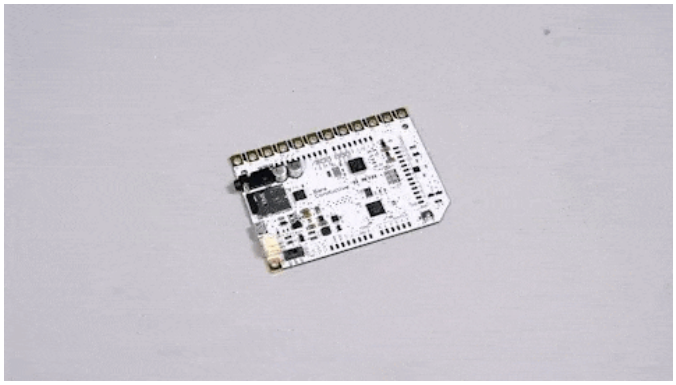
Bare Conductive

Manuals and howtos for the Bare Conductive touch board

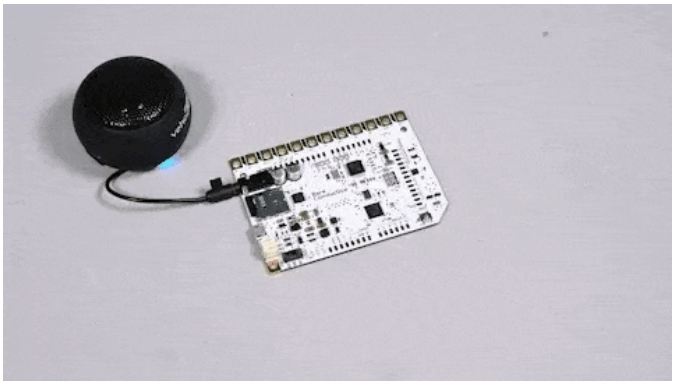
Please look here if you are looking for the Adafruit MPR121 12-Key Capacitive Touch Sensor Breakout tutorial.

- Getting Started with Bare Conductive
- Edit code, use as Isadora input, factory reset
- Tox for touchdesigner
- Bare conductive driver

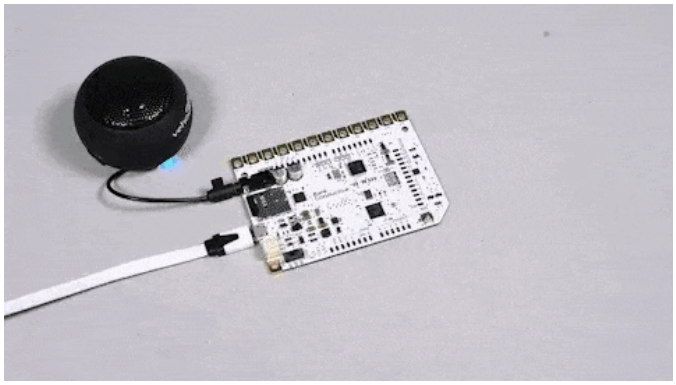
Getting Started with Bare Conductive



1. Verbind de koptelefoon of speaker. Zet de speaker aan (knopje aan de zijkant)



2. Verbind de USB kabel en de adapter voor stroom, en zet het bordje aan



3. Raak de sensor pads aan om geluid te horen.

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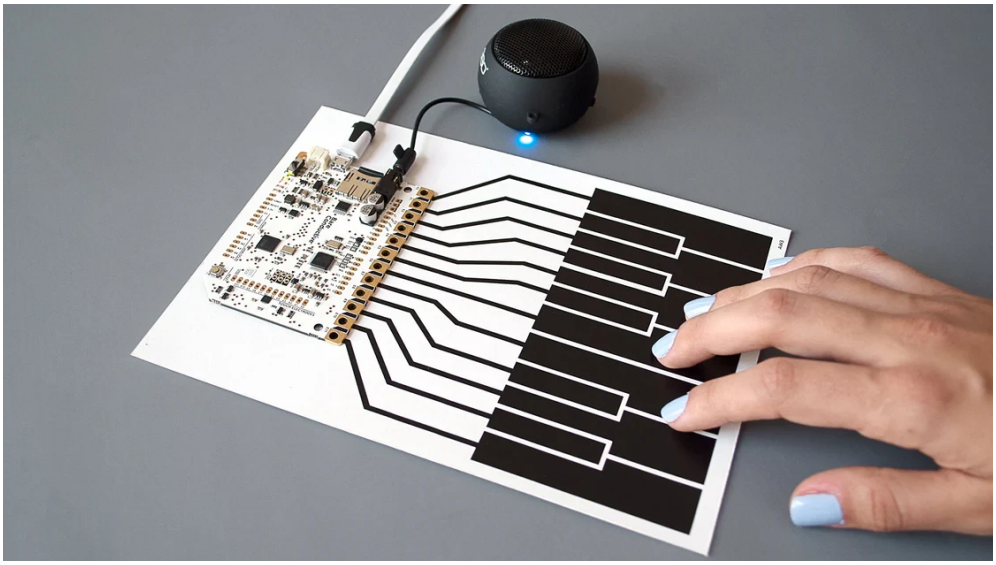
2. De sensors uitbreiden

Je kunt de sensor pads gebruiken om aanraking te registreren, maar je kunt de sensing pads ook 'verlengen'. Gebruik de snoeren met clips die in de koffer zitten en sluit ze aan op voowerpen om je heen. In de doos zit ook aluminiumfolie, kopertape en geleidende verf. Deze materialen kun je gebruiken om oppervlakken te maken die reageren op aanraking. Wat reageert er wel en wat reageert er niet?

> **Reageert de Bare Conductive niet meer als je iets nieuws hebt aangesloten?**
> Het bordje even aan- en uitzetten helpt meestal.

> **Leg het Bare Conductive bordje niet op een metalen oppervlak**, dat kan kortsluiting geven.



3. Andere geluiden gebruiken

Wil je iets anders horen dan de standaargeluiden? Bijvoorbeeld je eigen stem, of een geluid dat je opgenomen hebt? De geluiden die je hoort staan op de micro SD kaart die in de Bare Conductive zit en zijn makkelijk te verwisselen:
1. Zoek of maak je geluiden en sla ze op in MP3 formaat
2. Noem de bestanden zo: TRACK000.mp3, TRACK001.mp3 enzovoorts. Het nummer verwijst naar de sensor pad: TRACK000 is voor sensor 1, TRACK001 voor sensor 2.
3. Kopieer de bestanden naar de Micro SD van de Bare Conductive

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Edit code, use as Isadora input, factory reset

Factory reset and editing the code

If you've changed the code of the Touch board, you receive it with a different code installed, or want to edit the workings of the board, check this tutorial. Following the exact steps as described will result in a factory reset and the board will run the original code.

Bare Conductive as touch input for other devices

If you want to use the Bare Conductive board as a touch input for a different device (such as your pc), check the ECT Github.

Bare Conductive as touch input in Isadora

If you want to use the BC board as touch input in Isadora, check the ECT Github under bareConductiveDemo.izz.

If you want to use the Bare Conductive in Isadora and you know it already has the right arduino file follow these instructions:

1. Go to: https://github.com/hku-ect/IsadoraPatches
2. Click on the green "<> Code" button and then on "Download ZIP."
3. Unzip the file, and inside the folder, you'll find "bareConductiveDemo.izz." This is the file you'll be working with.

4. Connect the Bare Conductive to your computer. You'll need a USB cable, which unfortunately is still not included with the two boards that are on JBP.

5. There's a slider/button on the Bare Conductive to turn it on. Use it to power up the board; a light will come on.

6. In Isadora, go to "Communication" -> "Serial Port Setup..." Under Port 1, select the appropriate device. On OSX, it's called usbmodem41223 or something similar; on Windows, it might be COM3 or another number.

7. Click "Ok."

8. Next, go to "Communication" and click on "Enable Serial Ports." If everything is set up correctly, a second light on the board should start blinking, and you'll see numbers coming into Isadora as the values change when you touch the contact points on the board with your finger.

9. There's also a reset button on the Bare Conductive. Use it after connecting new wires/foil/conductive materials to the Bare Conductive.

Tox for touchdesigner

To read the info coming from bare conductive add these tox to your project.

download:

Bare_Conductive.tox

To use this, prepare your TouchBoard in the Arduino IDE:

1. Install the Arduino IDE
2. On Windows, install the touchboard driver
3. Install the Touch Board Arduino Plugin Touch_Board_Manual_Install.zip
4. Upload the "Datastream.ino" to the touchboard

DataStream.ino

Dive inside the TOX to see what is happening :)
You can adjust certain choices to get other outputs

More InDepth info can be found here: https://github.com/hku-ect/BareConductive

Bare conductive driver

You may need this to run de BC on pc.
This is a copy of the original files on Github, as this may be deleted because BC is discontinued as of 2025 link to the github

This is the signed Windows driver for the Bare Conductive Touch Board.

Install

- Disconnect the Touch Board from your computer if it is already connected
- Download the touch-board-driver-public.zip and extract it somewhere
- In the folder you have extracted, run one of **dpinst_x86.exe**, **dpinst_AMD64.exe** or **dpinst_ia64.exe**, depending on the architecture you are running on
- If the above doesn't make any sense, try them all until one works - Windows will not let you run an incorrect program
- Click Yes or Accept to all the questions you get asked - this will install our signed driver
- Restart your computer
- When you next plug in the Touch Board Windows will automatically install the correct drivers and the board will appear as a COM port
- The first time you try to upload code to the board via the Arduino IDE (or when you first press the reset button with the board connected to your computer) you may get a message that Windows failed to successfully install a driver. You will probably also find that your first upload fails. Don't worry about this - give your computer 45 seconds to catch up with itself and try again. This will only happen once.
- Once the driver is installed you can delete the folder you originally extracted the .zip into