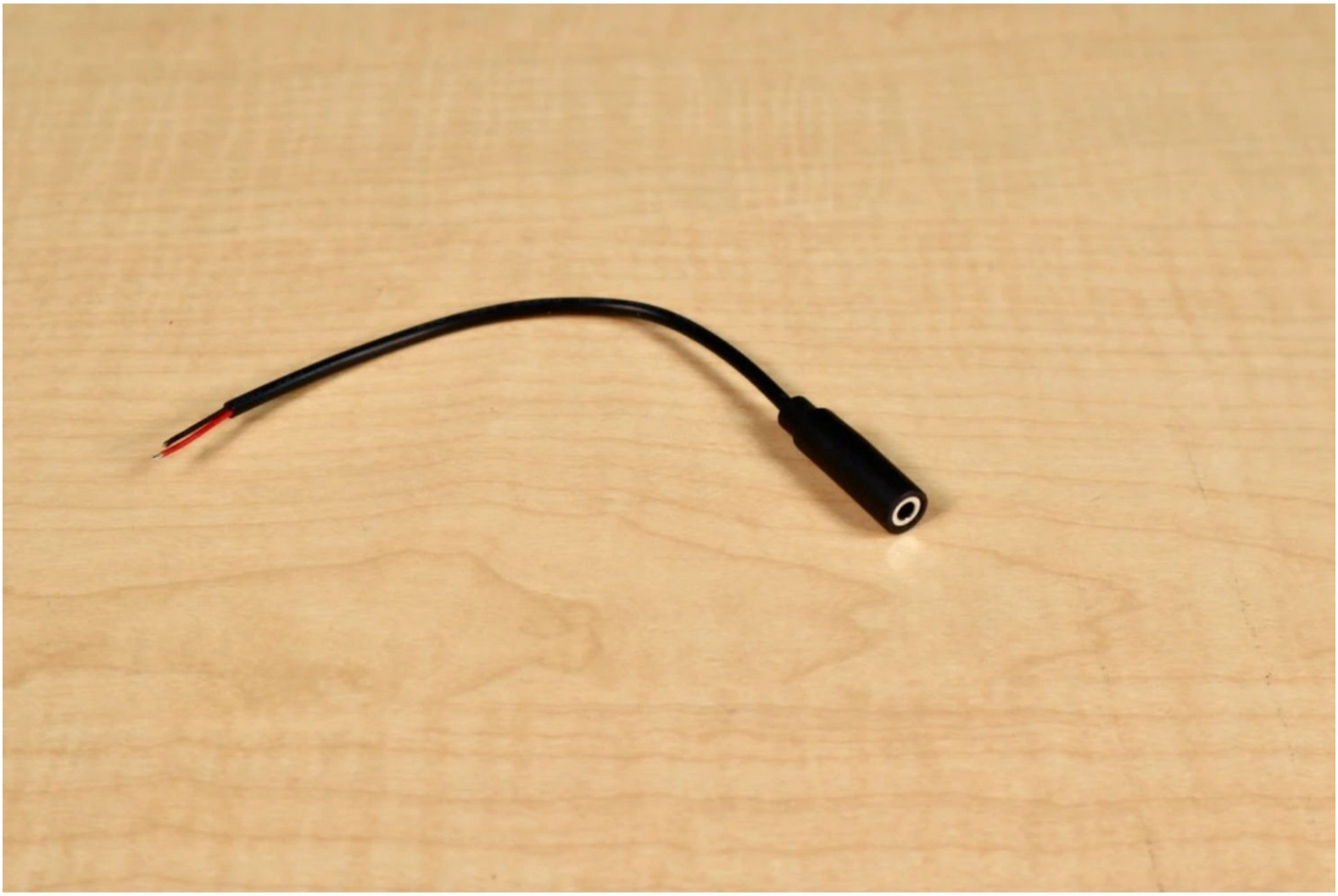
Headphone Jack

Written By: Pete Prodoehl



INTRODUCTION

Connecting a headphone jack to a Crazy Circuits project allows you to attach computer speakers or headphones for sound output.

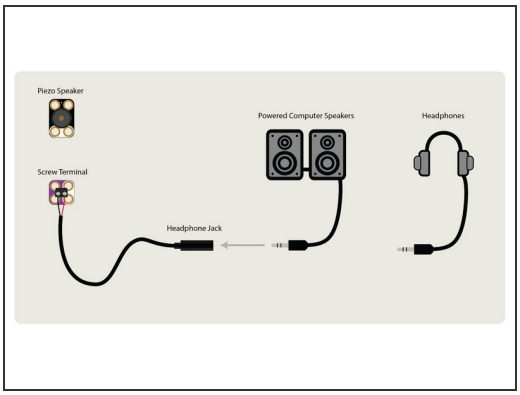
TOOLS:

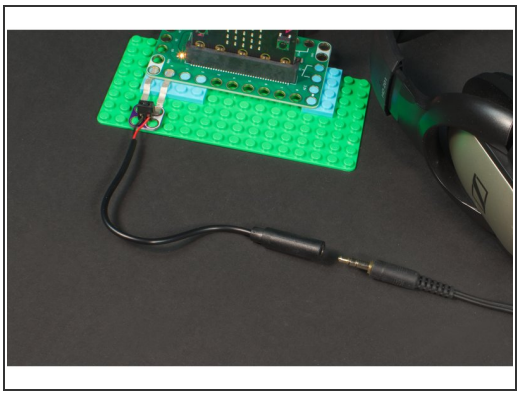
- Small Slotted Screwdriver (Flat Head) (1)

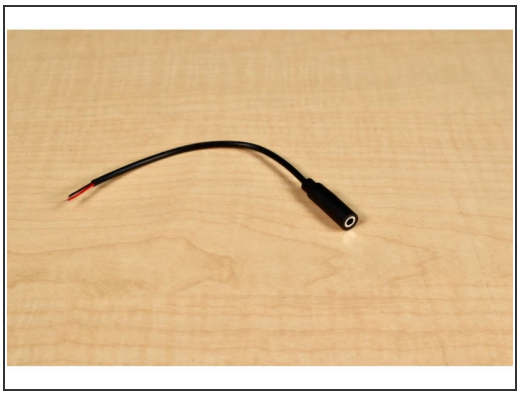
PARTS:

- Headphone Jack (1)
- Crazy Circuits Screw Terminal Chip (1)
- Maker Tape (1)
  1/8" Wide

Step 1 — Hello, Jack!



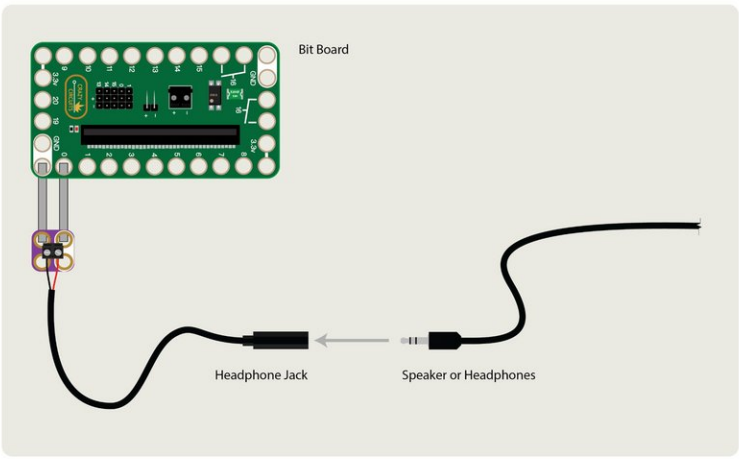


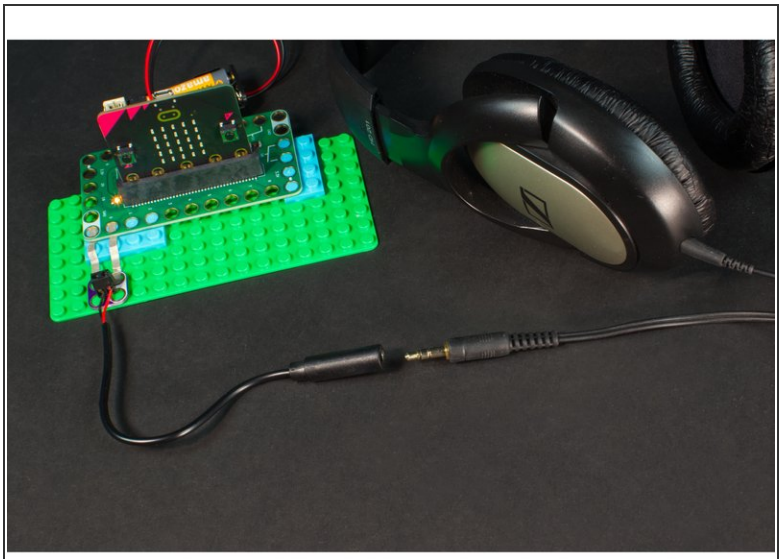


- No matter which Crazy Circuits programming board you use, they can all make sound.
- Using our Piezo Speaker is the simplest way to hear something. Connecting it with a few pieces of Maker Tape is quick and easy.
- If you want to use powered computer speakers, headphones, or anything else with a 1/8" audio connector, the Headphone Jack is the perfect solution.
- We recommend connecting the Headphone Jack wires to a Crazy Circuits Screw Terminal. All you'll need is a small slotted screwdriver.

⚠ Polarity won't really matter when connecting the wires. It's also worth noting this is a mono (not stereo) audio connector, so you'll only get sound from one side of a headphone or one side from a set of stereo speakers.

Step 2 — Bit Board Connection

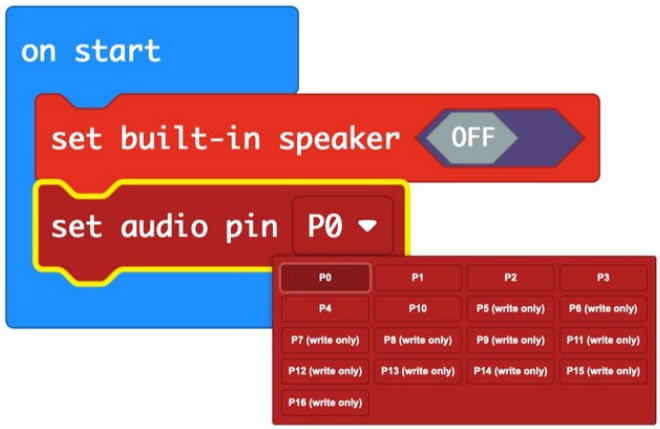




- When connecting to a Bit Board with a micro:bit the default connection will be to **Pin 0** and **GND**.

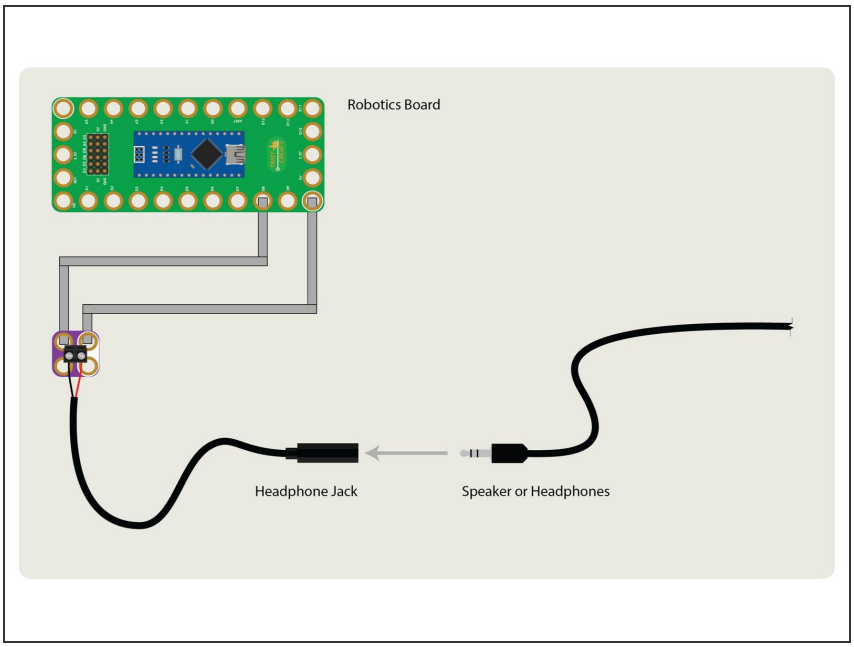
ⓘ *(Don't worry though, defaults can be changed!)*

Step 3 — Bit Board Code



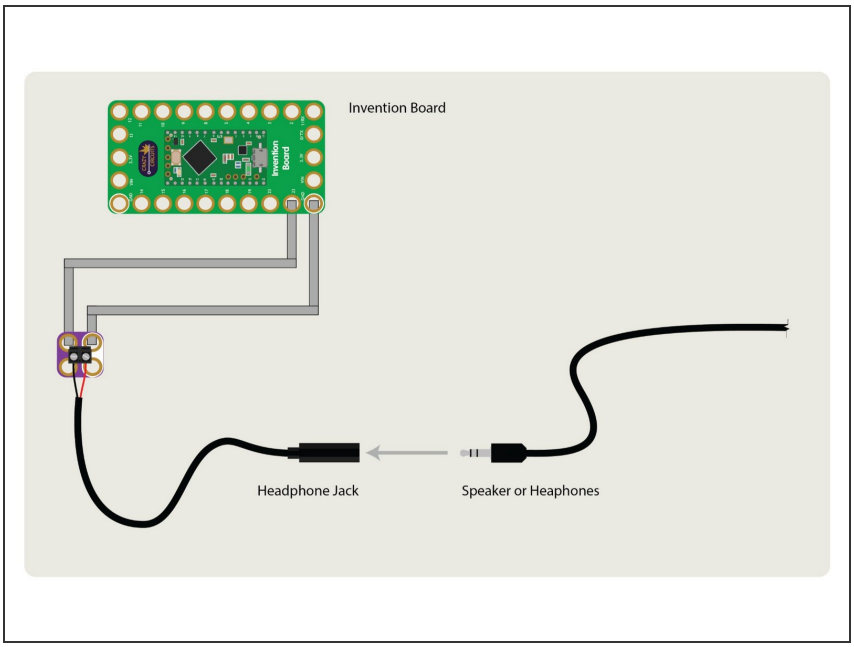
- If you are using a micro:bit V2 it does have an on-board piezo speaker, which you can turn **OFF** in your code.
- You can also specify the pin used for audio output. (If you do not specify one, **Pin 0** will be used.)

Step 4 — Robotics Board Connection



- For the Robotics Board just connect to **GND** and any digital pin.
- Learn more about the tone() function for Arduino.

Step 5 — Invention Board Connection



- For the Invention Board just connect to **GND** and any digital pin.
- Learn more about the tone() function for Arduino.