



Step 2 - Program the Makey Makey-like device

In order for your makey-makey-like device to function like a classical makey makey, you will need to program the Arduino board, so that whenever a circuit is shut, the computer will react as if a certain key (ex. "a", "backspace", "space") were pressed.

You will need to use Arduino IDE to code and upload the firmware onto your Arduino Leonardo board.

Download the software by visiting [Arduino IDE](#) > Scroll down until you see the "Download the Arduino IDE" section and choose the version based upon your operating system (e.g. If you have Windows 7, choose "Windows Installer" / if you have Windows 10, choose "Windows app") > On the next page choose "Just download" and run the installation files.

Here you can download the code to upload on your Arduino board. You then need to run the .ino file with Arduino IDE and make sure you install the movingAvg library from "Sketch" menu > Include Library > Manage Libraries... > Search for "movingavg" > Install. Afterwards, select the correct board from Tools > Board: Arduino Leonardo and then the correct Port from Tools > Port.

Finally, upload the code by using the right arrow (→) button at the top right corner of the window, by choosing Sketch > Upload or by pressing Ctrl+U on the keyboard.

Note that we've mapped the analog pins so that A0 maps to letter "d", A1 to letter "s", etc.

You can modify the mapping by changing the letters "d", "s", etc.

```
const byte InputPins[PinCount] = {A0, A1, A2, A3, A4, A5};
const char KeyCodes[PinCount] = {'d', 's', 'w', 'a', 'z', 'e'};
```

Step 3 - Play

Just like you do with a real makey makey, it is convenient to attach alligator clips to the jumper wires, and connect the alligator clips themselves to whichever conductive object you'd like.

Whenever you will connect the alligator clip connected to GND on the board with one of the alligator clips connected to one analog pin, thus shutting down a circuit, you will trigger a response on your computer (ex. letter "a").

If you plug one end of the alligator clip connected to one analog pin onto a fruit (fruits are conductive) and you hold the alligator clip deriving from ground on your hand (ex. your left hand), whenever you will touch the fruit with your right hand, it will be as if you were connecting GND to the analog pin, thus shutting a circuit, and triggering a response from your computer (ex. letter "a").



Notes and references

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