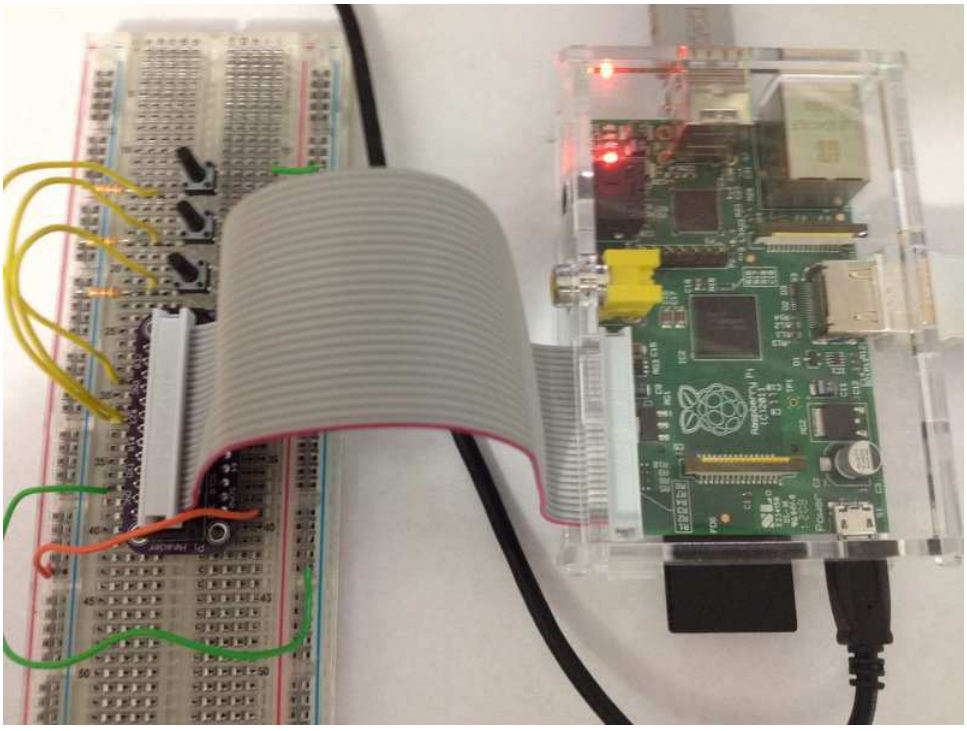

Playing sounds and using buttons with Raspberry Pi

Triggering mp3's based on tactile input with a Pi

Contributors

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Brennen Bearnes
Feedback? Corrections?
RASPBERRY PI

Code

by Michael Sklar

Now for a bit of Python:

- Use a text editor like Nano to paste this code into a file named `raspi-audio-button.py`
- Download or copy several mp3 files to the Pi and place them into the same directory as the `raspi-audio-button.py` script
- Change the filenames in the code to match the files you've just copied
- Make the file executable with `chmod`

Copy Code

```
nano raspi-audio-button.py
```

Copied!

```
#!/usr/bin/env python

import os
from time import sleep

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BCM)
GPIO.setup(23, GPIO.IN)
GPIO.setup(24, GPIO.IN)
GPIO.setup(25, GPIO.IN)

while True:
    if (GPIO.input(23) == False):
        os.system('mpg123 -q binary-language-moisture-evaporators.mp3 &')

    if (GPIO.input(24) == False):
        os.system('mpg123 -q power-converters.mp3 &')

    if (GPIO.input(25)== False):
        os.system('mpg123 -q vader.mp3 &')

    sleep(0.1);
```

Copy Code

```
$ chmod +x raspi-audio-button.py
```

Make sure you have speakers or headphones hooked up to the 3.5mm jack, and run the Python program as an administrator using `sudo`:

Copy Code

```
$ sudo python raspi-audio-button.py
```

Now you should be able to trigger each mp3 by hitting the corresponding button.

A handful of things worth noticing here:

- `os.system('command')` will run `command` just like if you typed it at the prompt.
- The `&` tells the shell to run the command in the background. This way you can actually play more than one file at once.
- The `-q` option to `mpg123` suppresses diagnostic messages. You can remove it if you'd like to see song titles.
- The `sleep(0.1)` call is necessary to avoid spawning tons of `mpg123` calls from a single button press.

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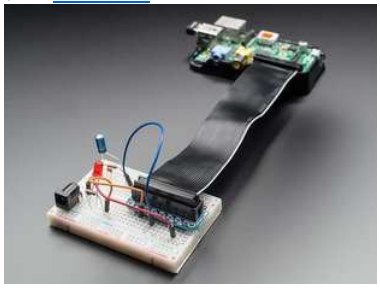

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