Piano HAT

PIM095

Unlock your inner Mozart with Piano HAT, a mini musical companion for your Raspberry Pi!

Piano HAT is inspired by Zachary Igielman's PiPiano and made with his blessing. We've taken his fabulous idea for a dinky piano add-on for the Raspberry Pi, made it touch-sensitive and added barrels of our trademark Pimoroni polish.

Play music in Python, control software synths on your Pi, and take control of hardware synthesizers!

Michael Horne said *"The Piano HAT is, as far as electronics goes, a work of art. It looks slick, feels slick and, with the software library included, acts slick."*

The MagPi said Piano HAT was *"a great way to unleash your ivory-tinkling tendencies"* and *"a board for musical adventures"*.

Features

- 16 capacitive touch pads (link each to their own Python function!)
- 13 piano keys (a full octave)
- Octave up/down buttons
- Instrument cycle button (great for use with synthesizers)
- 16 bright white LEDs (let them light automagically, or take control with Python)
- 2x Microchip CAP1188 capacitive touch driver chips
- Use it to control software or hardware synths over MIDI
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library https://github.com/pimoroni/Piano-HAT
- Comes fully assembled

Software

We've made an ever-so-thorough Python library to control Piano HAT, with a bunch of nifty examples to let you explore its functionality.

There's a learn to play example that let's you play along as Piano HAT's LEDs show you which keys to press. In no time, you'll be a Chopin for the 21st century.

We've included a MIDI example that lets you play music with Sunvox, Yoshimi and other software synths, a PyGame example with glorious piano and drum samples and even a true 8-bit synth written in pure Python!

You can even make Piano HAT output regular MIDI commands via a USB to MIDI adapter and use Piano HAT as a tiny, cheap MIDI controller for your Minimoog Model D (you have one right?)