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Display-O-Tron HAT

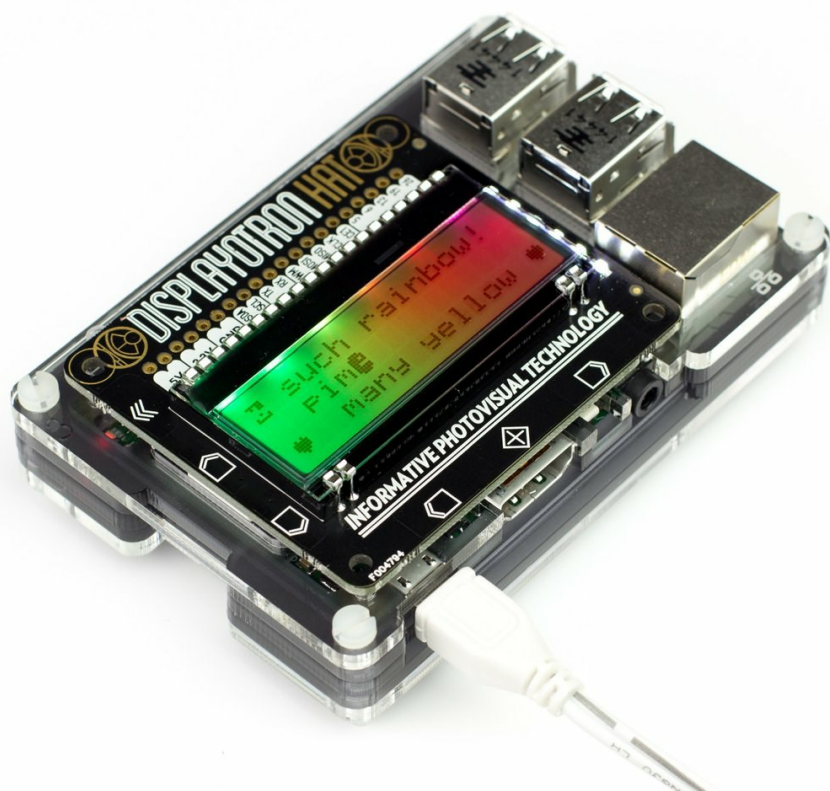
Great for including a colourful character display and button inputs on your Raspberry Pi based projects! [Read more...](#)

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Display-O-Tron HAT

Great for including a colourful character display and button inputs on your Raspberry Pi based projects!

Includes a 16x3 character LCD display, 6-zone RGB LED backlight, bar graph, and six capacitive touch buttons all in one slim package.

It's ideal for controlling your internet radio or home automation projects.

Features

- 16x3 character LCD display (full ASCII character set and eight custom glyphs)
- Fully controllable six zone RGB backlight
- Six bright white bar graph LEDs (individually dimmable)
- Six capacitive touch buttons
- Power, I2C, SPI, UART, PWM, and five GPIO pins broken out
- SN3218 LED matrix driver chip (drives the RGB backlight)

- Microchip CAP1166 capacitive touch driver chip
- [Display-O-Tron HAT pinout](#)
- Compatible with Raspberry Pi 3B+, 3, 2, B+, A+, Zero, and Zero W
- [Python library](#)
- Comes fully assembled (breakout pins require soldering)

Software

Our [Display-O-Tron Python library](#) will get you going in a jiffy, and makes controlling Display-O-Tron HAT really easy.

We've included examples showing you how to use the backlight, bar graph LEDs, and touch buttons, as well as more advanced examples showing you how to create menus, games and even an internet radio!

Our software does not support Raspbian Wheezy.

Notes

If you want to keep your Pi in a case, we recommend the [Pibow Coupé](#) case as it will allow you to still use the capacitive touch buttons.



Reviews



18 Reviews

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Simon Pooley ★★★★★

Bought to replace an older "Display-o-Tron 3000" for a project where convenient access to extra GPIOs was required. The extra backlight LEDs in the dotHAT (over the dot3k) makes the display better in the dark. The capacitive keys work well, although the screen gets in the way of accessing the [up] and [down] pads which are immediately to the left of the display.

8 days ago

M M ★★★★★

Excellent bit of kit for tinkering. I used the DOT Hat to control the Phillips Hue Lighting system at home. Currently looking to move the project to run on a Pi Zero and build a custom case for it.

29 days ago

Adrian Robi... ★★★★★

Great little display, even better is the ongoing support and python library! :D
With a little tinkering I turned it into an airplay music visualiser:
<https://gist.github.com/transilluminate/d309b7f04b11230a3f6406a9cf70139c>

2 months ago

Ross McKillop ★★★★★

Fantastic device, the ability to be able to set the 6 individual zones of the

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