

# GPIO ZERO 1.4 AND PINOUT

A new version of GPIO Zero is out and includes a handy diagram for novice coders

```

(gpiozero-emu) ben@marcny:~/Projects/github/rpi-distro/python-gpiozero (pinout-cs1-tool) $ pinout -i 4028C2
(gpiozero-emu) ben@marcny:~/Projects/github/rpi-distro/python-gpiozero (pinout-cs1-tool) $ pinout -r 4028C2

  Pi Model: 3B v1.2
  Revision: 3028002
  SOC: BCM2837
  RAM: 1024MB
  Storage: MicroSD
  USB ports: 4 (excluding power)
  Ethernet ports: 1
  Wi-Fi: true
  Bluetooth: true
  Camera ports (CSI): 1
  Display ports (DSI): 1

Pi:
  Pin (1) (2)  SW
  GPIO2 (3) (4)  SW
  GPIO3 (5) (6)  GND
  GPIO4 (7) (8)  GPIO4
  GND (9) (10)  GPIO5
  GPIO17 (11) (12)  GPIO18
  GPIO27 (13) (14)  GND
  GPIO22 (15) (16)  GPIO23
  SW (17) (18)  GPIO4
  GPIO18 (19) (20)  GND
  GPIO28 (21) (22)  GPIO29
  GPIO24 (23) (24)  GPIO25
  GND (25) (26)  GPIO26
  GPIO28 (27) (28)  GPIO29
  GPIO29 (29) (30)  GND
  GPIO30 (31) (32)  GPIO31
  GPIO23 (33) (34)  GND
  GPIO24 (35) (36)  GPIO25
  GPIO26 (37) (38)  GPIO27
  GND (39) (40)  GPIO28

(gpiozero-emu) ben@marcny:~/Projects/github/rpi-distro/python-gpiozero (pinout-cs1-tool) $

  Pi Model: Zero v1.2
  Revision: 5026002
  SOC: BCM2835
  RAM: 512MB
  Storage: MicroSD
  USB ports: 1 (excluding power)
  Ethernet ports: 0
  Wi-Fi: false
  Bluetooth: false
  Camera ports (CSI): 1
  Display ports (DSI): 0

Pi:
  Pin (1) (2)  SW
  GPIO2 (3) (4)  SW
  GPIO3 (5) (6)  GND
  GPIO4 (7) (8)  GPIO4
  GND (9) (10)  GPIO5
  GPIO17 (11) (12)  GPIO18
  GPIO27 (13) (14)  GND
  GPIO22 (15) (16)  GPIO23
  SW (17) (18)  GPIO4
  GPIO18 (19) (20)  GND
  GPIO28 (21) (22)  GPIO29
  GPIO24 (23) (24)  GPIO25
  GND (25) (26)  GPIO26
  GPIO28 (27) (28)  GPIO29
  GPIO29 (29) (30)  GND
  GPIO30 (31) (32)  GPIO31
  GPIO23 (33) (34)  GND
  GPIO24 (35) (36)  GPIO25
  GPIO26 (37) (38)  GPIO27
  GND (39) (40)  GPIO28

(gpiozero-emu) ben@marcny:~/Projects/github/rpi-distro/python-gpiozero (pinout-cs1-tool) $
  
```

A bit late to squeeze itself into the news section for this issue, we thought this was very much worth talking about anyway: a brand new version of GPIO Zero is out! Version 1.4 of the Python library includes a standard selection of improvements and optimisations, but one of the things creator Ben Nuttall, Raspberry Pi Community Manager, is excited about is the new pinout tool on the command line.

"The pinout command-line tool is available to all Raspbian users," Ben tells us. "It shows some information about the Pi you're on, including an

" The pinout tool is available to all Raspbian users "

ASCII art diagram and a pin layout for your Pi. All Pi models since the B+ (2014) have had the same pinout, but if you have an older model, it'll show you the correct pin layout for that one. It even works on the Compute Module!"

There are some pictures on this page to illustrate how it looks – no longer will you need to keep referring back to a 'Raspberry Pi gpio' search in Google Images. And by you, we mean us.

To get the update, run the following command in the Terminal or on the command line:

```
sudo apt update && sudo apt install python3-gpiozero
```

To run the new tool, you simply need to run the command `pinout -h`.

**Above left:** The tool tells you which pin relates to which GPIO number in the code, as well as giving you other information about your Pi.

**Left:** The ASCII art for the Pi shows the model you're using, and even works with the smaller Pi Zero.