

# Raspberry Pi Pinout

SDIO JTAG UART DPI PCM 1-WIRE

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3v3 Power	1	2	5v Power
BCM 2 (SDA)	3	4	5v Power
BCM 3 (SCL)	5	6	Ground
BCM 4 (GPCLK0)	7	8	BCM 14 (TXD)
Ground	9	10	BCM 15 (RXD)
BCM 17	11	12	BCM 18 (PWM0)
BCM 27	13	14	Ground
BCM 22	15	16	BCM 23
3v3 Power	17	18	BCM 24
BCM 10 (MOSI)	19	20	Ground
BCM 9 (MISO)	21	22	BCM 25
BCM 11 (SCLK)	23	24	BCM 8 (CE0)
Ground	25	26	BCM 7 (CE1)
BCM 0 (ID_SD)	27	28	BCM 1 (ID_SC)
BCM 5	29	30	Ground
BCM 6	31	32	BCM 12 (PWM0)
BCM 13 (PWM1)	33	34	Ground
BCM 19 (MISO)	35	36	BCM 16
BCM 26	37	38	BCM 20 (MOSI)
Ground	39	40	BCM 21 (SCLK)

## Legend

GPIO (General Purpose IO)

SPI (Serial Peripheral Interface)

I<sup>2</sup>C (Inter-integrated Circuit)

UART (Universal Asynchronous Receiver/Transmitter)

Ground

5v (Power)

3.3v (Power)

## Pinout!

### The comprehensive GPIO Pinout for the Raspberry Pi.

This GPIO Pinout is designed to be both a quick reference to the Raspberry Pi GPIO pins, plus a guide to your Raspberry Pi's GPIO interfaces and dozens of pinouts for Raspberry Pi add-on boards and pHATs.

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### pHAT Stack

Pinout has teamed up with Pimoroni to create a [compatibility tool](#), [check it out here!](#)

### Explore HATs & pHATs

We've [added a board explorer!](#) Use it to find Raspberry Pi add-on boards, or discover new manufacturers. If you manufacture boards, we'd love to add yours! [Contribute over on GitHub.](#)

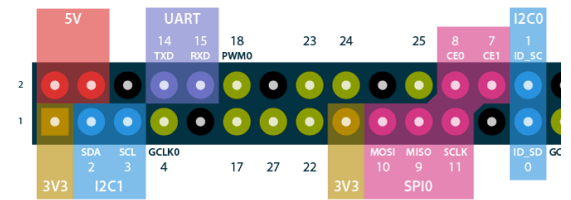
### What do these numbers mean?

- BCM - Broadcom pin number, commonly known as the ones you probably want to use with GPIO Zero
- WiringPi - Wiring Pi pin number (shown as used in Gordon Henderson's Wiring Pi library)
- Physical - Number corresponding to the pin location on the header
- Rev 1 Pi - Alternate BCM numbers for the model "A" and "B" Pi

### Graphical Pinout

We've whipped up a simple graphical Raspberry Pi Pinout. Feel free to print, embed, share or hotlink this page. Don't forget to credit us!

Raspberry Pi GPIO BCM numbering



Spotted an error, want to add your board's pinout? Head on over to our GitHub repository and submit an Issue  
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