

# Contents

► Issue 99 ► November 2020

## Cover Feature

### 41 Raspberry Pi Ultimate wishlist

## Regulars

- 14 World of Pi: Compute Module 4
- 92 Your Letters
- 97 Next Month
- 98 The Final Word

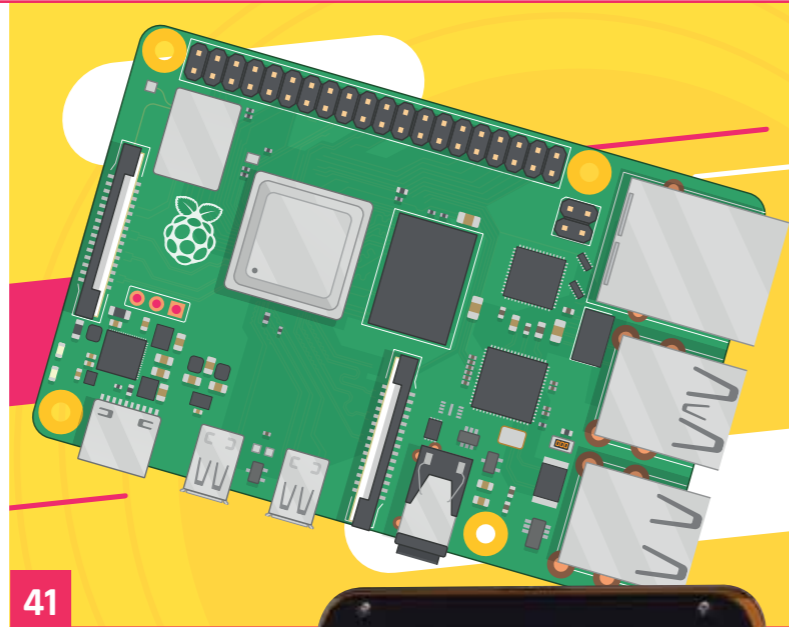
## Project Showcases

- 18 Howff 3D scanning rig
- 22 Prayer Reminder Clock
- 24 Remote Humidity Detector
- 26 Mars Clock
- 30 Smart Garden BBQ
- 32 Coffee Stirrer Camera
- 34 Lunchbox Arcade Game

30



Smart Garden BBQ



41



Lunchbox Arcade Game

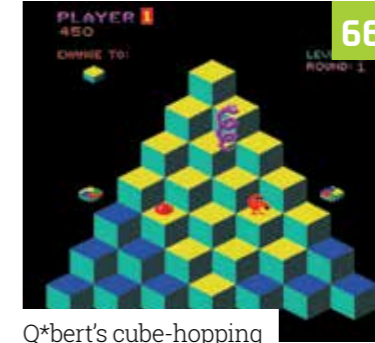
**DISCLAIMER:** Some of the tools and techniques shown in The MagPi magazine are dangerous unless used with skill, experience, and appropriate personal protection equipment. While we attempt to guide the reader, ultimately you are responsible for your own safety and understanding the limits of yourself and your equipment. Children should be supervised. Raspberry Pi (Trading) Ltd does not accept responsibility for any injuries, damage to equipment, or costs incurred from projects, tutorials or suggestions in The MagPi magazine. Laws and regulations covering many of the topics in The MagPi magazine are different between countries, and are always subject to change. You are responsible for understanding the requirements in your jurisdiction and ensuring that you comply with them. Some manufacturers place limits on the use of their hardware which some projects or suggestions in The MagPi magazine may go beyond. It is your responsibility to understand the manufacturer's limits.

48



CD-ROM Console

66



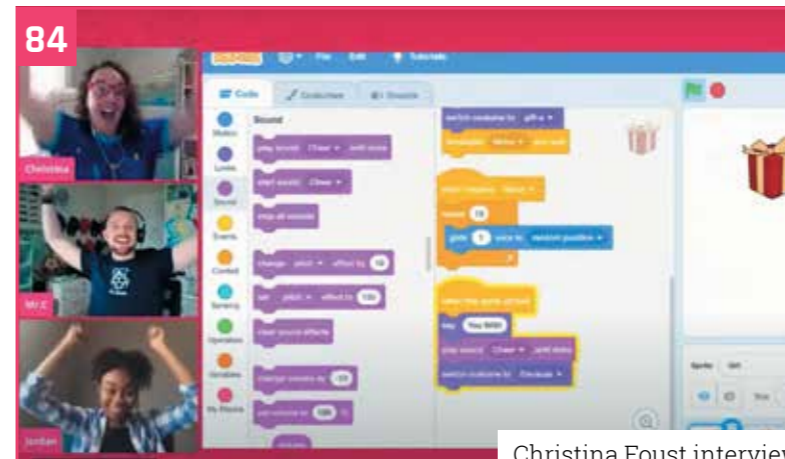
Q\*bert's cube-hopping

74



Stellina

84



Christina Foust interview

## Tutorials

- 48 Build a retro CD-ROM console
- 54 Build a Home Assistant
- 58 Make a spy camera
- 62 Tap-an-LED part 3
- 66 Recreate Q\*bert's cube-hopping

## The Big Feature

68



Holiday projects!

## Reviews

- 74 Stellina
- 76 Lyra
- 78 pi-top [4] DIY Edition
- 80 10 Amazing: life improving projects
- 82 Learn Sense HAT

## Community

- 84 Christina Foust interview
- 86 This month in Raspberry Pi
- 90 Events calendar

WIN  
1 OF 3

PIBOY DMG

95

