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		Stevenage UK, Winchester UK, Nottingham UK, Paignton UK, Helsingborg Sweden
19	40	SONIC PI AT CHRISTMAS
		Learning to program with Sonic Pi
19	44	FEEDBACK
		Have your say about The MagPi
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\vdash		MagDi #20 Contents
20	0.4	MagPi #20 Contents
20	04	PROJECT CURACAO: REMOTE SENSOR MONITORING IN THE CARIBBEAN Part 3: The camera subsystem
20		ran 5. The Camera subsystem
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	08	PROGRAMMING FOR PI-PAN
20		PROGRAMMING FOR PI-PAN A pan and tilt control for your Raspberry Pi camera
20	08 10	PROGRAMMING FOR PI-PAN A pan and tilt control for your Raspberry Pi camera QUADCOPTER
	10	PROGRAMMING FOR PI-PAN A pan and tilt control for your Raspberry Pi camera QUADCOPTER Part 2: Pre-flight checks
20		PROGRAMMING FOR PI-PAN A pan and tilt control for your Raspberry Pi camera QUADCOPTER

20	19	COMPETITION
		Win a Pi NoIR camera, GPIO breakout, gigabit hub, two SD cards and more
20	20	CABLE MODEM
		Using a Raspberry Pi to automatically restore a lost internet connection
20	26	RACKS OF PI
20	20	Colocating Raspberry Pi's in France
	•••	
20	29	THIS MONTH'S EVENTS GUIDE
		Cambridge UK, Malvern UK, Mountain View California USA, Manchester UK, Southend-on-Sea UK
20	30	ALGOID
		Programming made simple and fun
20	36	THE SCRATCH PATCH
		Flexible I /O: using GPIO, SPI, files
		more
20	40	MY OS: BUILD A CUSTOMISED OPERATING SYSTEM
		Part 2: Bake your own Pi filling - build tools and more
20	43	BOOK REVIEWS
		Python in Easy Steps and Raspberry Pi Networking Cookbook
20	44	FEEDBACK
20	• •	Have your say about The MagPi
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		MagDi #31 Contents
	6 :	MagPi #21 Contents
21	04	INTERVIEW WITH EBEN UPTON
		Thoughts and future ideas, on the Raspberry Pi's 2nd birthday
21	10	MANAGING A HOME WEATHER STATION
		Recording and predicting the weather
21	14	FISH-PI
		Remote aquarium management over the internet
21	22	INTERNET RADIO
		Discover new radio content across the world
21	28	PROJECT CURACAO: REMOTE SENSOR MONITORING IN THE CARIBBEAN
		Part 4: The software architecture
21	32	PI BOOK AIR
21	32	How to make the Raspberry Pi portable
21	24	BOOK REVIEWS
41	34	
	25	Adventures in Raspberry Pi and Scratch Programming in Easy Steps
21	35	COMPETITION
		Win a Pi NoIR camera, GPIO breakout board, gigabit hub, two SD cards and more
21	36	PHYSICAL COMPUTING
		Part 1 : GPIO sensing - motion detection
21	39	THIS MONTH'S EVENTS GUIDE
		Paignton UK, Concorezzo I taly, Swansea UK, Bristol UK, London UK
21	40	LINUX COMMANDS
		Part 1: Tails from the Linux tool shed - ping and traceroute
21	44	STRONGHOLD OF THE DWARVEN LORDS
		A Tim Hartnell text adventure in Python
21	48	FEEDBACK
		Have your say about The MagPi
		MagDi #22 Contents
L	0.1	MagPi #22 Contents
22	04	ASTRONOMICAL TRACKING
<u></u>	6.5	Reflective solar tracking control system
22	08	NIGHTLIGHT
		Keeping night-time monsters away with PiGlow
22	14	LAIKA TM
		Part 1 : Introducing Laika Explorer and digital output electronics
22	18	MUNTS I/O EXPANSION BOARD
L		Part 3: LEGO® interfacing with an ARM Cortex-M0 microcontroller
22	24	HOME AUTOMATION
		Controlling your garage door over the internet with the Raspberry Pi

22	30	DATABASE BOOTCAMP
	50	Part 2: Inserting and viewing stored data
22	33	THIS MONTH'S EVENTS GUIDE
		Torbay UK, CERN Switzerland, Québec Canada, Wakefield UK, Beachwood USA
22	34	WYLIODRIN
		Programming the Raspberry Pi from a web browser using a visual language
22	40	I/O EXPANSION WITH PYTHON AND SCRATCH
		Adding I /O devices to RpiScratchIO
22	46	COMPETITION
		Win a bundle of Raspberry Pi accessories from PC Supplies Ltd
22	47	BOOK REVIEWS
22	40	Raspberry Pi User Guide Second Edition and Learning Python with Raspberry Pi
22	48	FEEDBACK Hove your say shout The MosDi
		Have your say about The MagPi
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22	0.4	MagPi #23 Contents STUDYING ATMOSPHERIC POLLUTION WITH A MULTI-SENSOR ARRAY
23	04	Part 1: Introduction to the main subsystems
23	08	GROVEPI: ADDING GROVE SENSOR MODULES
20	33	Stackable hardware extension board
23	12	BRICKPI
		Part 3: Scratch interface with RpiScratchIO
23	18	BIG BIRTHDAY COMPETITION
		Over £2000 of prizes to be won in our second anniversary competition
23	20	MINECRAFT PI EDITION
		Part 2: Interfacing Minecraft with PiFace Digital
23	26	PHYSICAL COMPUTING
		Part 2: Using 1 -Wire temperature sensors
23	30	C++ CACHE
	24	Part 5: Classes
23	34	CHAT ROOM Turn your Raspberry Pi into an XMPP chat server
23	38	LINUX COMMANDS
23	30	Part 2: Tales from the Linux tool shed - don't bash the shell
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		Cambridge UK, North Staffordshire UK, Cardiff UK, San Mateo CA USA, Bath UK
23	44	SONICPI: GET YOUR GROOVE ON!
		Part 2: Discover new samples, synths, studio effects and Live Coding
23	48	FEEDBACK
		Have your say about The MagPi
		MagPi #24 Contents
24	04	PISCOPE
		Using the Raspbery Pi as a scope
24	12	STUDYING ATMOSPHERIC POLLUTION WITH A MULTI-SENSOR ARRAY
24	10	Part 2: Implementing the code
24	18	PROJECT CURACAO Part 5: Deployment and results
24	22	WOLFRAM ANALYSIS: MEASURING LIGHT ABSORPTION
∠ +	22	DIY chemistry lab: building a spectrophotometer
24	26	PICADEMY
_	-0	An interview with Carrie Anne Philbin
24	32	PYTHON AND TURTLE GRAPHICS
		Bringing Testudines out of the '80s
24	34	SCHOOL REPORT: DISCUSSION OF MAKING SESSIONS
		Tech-Dojo with the Raspberry Pi
24	36	PACKET SNIFFING
		Raspberry Spy Part 1 : understanding Wi-Fi networks

24	42	C++ CACHE
27	72	Part 6: Communication between objects
24	46	THIS MONTH'S EVENTS GUIDE
24	70	Bristol UK, Southend on Sea UK, Merthyr Tydfil UK, Keighley UK, Trier Germany
24	48	FEEDBACK
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25	6	PIBOT
23	U	Part 1 : Learn the fundamentals of robotics
25	12	FISH DISH
	12	A review of the Fish Dish circuit board
25	14	MOUSEAIR
		A control panel for cat entertainment
25	20	BITSCOPE
		An oscilloscope add-on board for the Raspberry Pi
25	23	THIS MONTH'S EVENTS GUIDE
1		Mountain View CA, Pontypridd UK, New York NY, Preston UK, Peterborough UK
25	24	TIMELAPSE
		Use Python to create timelapse images
25	28	PACKET SNIFFING
		Raspberry Spy Part 2: network IP addressing
25	32	FRESHLY ROASTED
		A beginners guide to Java. Part 3: an introduction to classes
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	40	Part 1 : Back to BASIC with the Raspberry Pi
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20	7	Persistence of vision: build a magic wand with an accelerometer
26	8	PI CANVAS DIGITAL ART DISPLAY
L		Display dynamic art using a Raspberry Pi
26	12	SMARTDRIVE ROBOT
		Coding a remote-controlled robot with the SmartDrive add-on board
26	14	MASHBERRY
		Homebrewing with the Raspberry Pi
26	18	PIBOT
		Part 2: Add the power of speech, hearing and vision to your robot
26	22	RASPBERRY PI MODEL B+
-	2.	All the details on the latest addition to the Raspberry Pi range
26	26	BITSCOPE Part 2: Electronic measurement with the RitScope accillascope add on board
26	20	Part 2: Electronic measurement with the BitScope oscilloscope add-on board
26	30	VOICE OVER IP SERVER Using Asterisk to implement a low cost telephone system
26	34	THIS MONTH'S EVENTS GUIDE
40	34	Southend UK, Mountain View CA, Malvern UK, Manchester UK, Winchester UK
26	36	FUZE BASIC
	50	Part 2: Variables, procedures and sprites
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	•	Feedback and ideas

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		MagPi #27 Contents
27	4	CHOOSE YOUR WEAPON
		Connecting an XBOX360, PS3 or Wiimote controller to a Raspberry Pi
27	12	THE MATBOARD PROJECT
		A story of Kickstarter, GPIO and water buckets
27	18	PHYSICAL COMPUTING
		Part 3: Using an HC-SR04 ultrasonic range finder
27	23	THIS MONTH'S EVENTS GUIDE Bristol UK, Swansea UK, Huddersfield UK, London UK
27	24	MINECRAFT PI EDITION
21	24	Build QR Code structures inside Minecraft
27	28	VERSION CONTROL
	20	Part 1: Version control basics using Git
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		Part 3: Keyboard input, animation and arrays
27	42	C++ CACHE
		Part 7: Operator overloading
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		Computer Vision on the Raspberry Pi
28	10	ARDUBERRY
•	4.4	Unite the Raspberry Pi and Arduino
28	14	BITSCOPE Part 3: Electronic measurement with the Oscilloscope add-on board
28	20	VOICE OVER IP
20	20	Part 2: Connecting to the telephone network
28	26	VERSION CONTROL
		Part 2: What happens when you make document changes
28	32	FUZE BASIC
		Part 4: Font scaling plus we add the final touches to our game
28	39	COMPETITION
		Win one of three Raspberry Pi FUZE kits worth a total of £450 in our programming competition
28	41	THIS MONTH'S EVENTS GUIDE
20	40	Mechelen Belgium, Berlin Germany, Cheltenham UK, Hull UK, Warwick USA
28	42	HAVE YOUR SAY Send us your feedback and article ideas
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29	4	TRAFFIC LIGHT
20	0	Simulating a bi-directional traffic light
29	8	PROJECT CURACAO Part 6: Upgrades on the Beach
29	14	NEW MODEL A+
	_	Introducing the latest Raspberry Pi hardware
29	18	OPENCV
		Part 2: Computer Vision on the Raspberry Pi
29	22	DIGITAL TEMPERATURE SENSOR
		Logging temperature with 1 -wire sensor

29	26	FUZE BASIC
2)	20	Part 5: Using FUZE BASIC to control a robot arm
29	31	EXTERNAL STORAGE
	31	Part 1 : File systems, partition tables and rsync
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29	40	SCRATCH PATCH: GOING BALLISTIC
		Learning to land on Mars
29	43	THIS MONTH'S EVENTS
		Manchester, Lagos, Northern I reland, Glasgow, Saarbrücken
29	44	PYTHON PIT: MAGIC 8 BALL
		Creating a GUI with Python's Tkinter
		MagPi #30 Contents
30	4	ENRICHING NMEA
	-	Using Java to enrich an NMEA stream
30	10	PING PONG
		Build a hardware based "tennis" game with the Raspberry Pi
30	16	LPC1 1 1 4 I/O PROCESSOR
		Pulse width modulation motor control
30	20	WEAVED IOT KIT
		Access your Raspberry Pi over the internet
30	22	RASPBERRY PI 2
		Quad core processor and a gigabyte of RAM: it's a game changer!
30	25	BOOK REVIEW
		Raspberry Pi for Dummies
30	26	THIS MONTH'S EVENTS GUIDE
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30	28	C#
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		Generating maze puzzles
30	44	THE PYTHON PIT: MAZE BUILDER
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30	48	HAVE YOUR SAY
		Send us your feedback and article ideas