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Nota di contenuto	Raspberry Pi® User Guide; Table of Contents; Introduction; Programming is fun!; A bit of history; So what can you do with the Raspberry Pi?; Part I: Connecting the Board; Chapter 1: Meet the Raspberry Pi; ARM vs. x86; Windows vs. Linux; Getting Started with the Raspberry Pi; Chapter 2: Linux System Administration; Linux: An Overview; Linux Basics; Introducing Debian; Using External Storage Devices; Creating a New User Account; File System Layout; Installing and Uninstalling Software; Chapter 3: Troubleshooting; Keyboard and Mouse Diagnostics; Power Diagnostics; Display Diagnostics Boot DiagnosticsNetwork Diagnostics; The Emergency Kernel; Chapter 4: Network Configuration; Wired Networking; Wireless Networking; Chapter 5: Partition Management; Creating a New Partition; Resizing Existing Partitions; Moving to a Bigger SD Card; Chapter 6: Configuring the Raspberry Pi; Hardware Settings-config.txt; Memory Partitioning-start.elf; Software Settings-cmdline.txt; Part II: Using the Pi as a Media Centre, Productivity Machine and Web Server; Chapter 7: The Pi as a Home Theatre PC; Playing Music at the Console; Dedicated HTPC with

Rasbmc

Chapter 8: The Pi as a Productivity Machine Using Cloud-Based Apps; Using OpenOffice.org; Image Editing with The Gimp; Chapter 9: The Pi as a Web Server; Installing a LAMP Stack; Installing WordPress; Part III: Programming and Hacking; Chapter 10: An Introduction to Scratch; Introducing Scratch; Example 1: Hello World; Example 2: Animation and Sound; Example 3: A Simple Game; Robotics and Sensors; Further Reading; Chapter 11: An Introduction to Python; Introducing Python; Example 1: Hello World; Example 2: Comments, Inputs, Variables and Loops; Example 3: Gaming with pygame
Example 4: Python and Networking Further Reading; Chapter 12: Hardware Hacking; Electronic Equipment; Reading Resistor Colour Codes; Sourcing Components; The GPIO Port; Using the GPIO Port in Python; Moving Up From the Breadboard; A Brief Guide to Soldering; Chapter 13: Add-on Boards; Ciseco Slice of Pi; Adafruit Prototyping Pi Plate; Fen Logic Gertboard; Part IV: Appendixes; Appendix A: Python Recipes; Raspberry Snake (Chapter 11, Example 3); IRC User List (Chapter 11, Example 4); GPIO Input and Output (Chapter 12); Appendix B: HDMI Display Modes; Index

Sommario/riassunto

Make the most out of the world's first truly compact computer. It's the size of a credit card, it can be charged like a smartphone, it runs on open-source Linux, and it holds the promise of bringing programming and playing to millions at low cost. And now you can learn how to use this amazing computer from its co-creator, Eben Upton, in Raspberry Pi User Guide. Cowritten with Gareth Halfacree, this guide gets you up and running on Raspberry Pi, whether you're an educator, hacker, hobbyist, or kid. Learn how to connect your Pi to other hardware, install software, write bas
