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Titolo	Complex Systems: Innovation and Sustainability in the Digital Age : Volume 2 / Aleksei V. Bogoviz editor
Pubbl/distr/stampa	Cham, : Springer, 2021
Descrizione fisica	XII, 631 p. : ill. ; 24 cm
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910438096103321

Autore	Membrey Peter
Titolo	Learn Raspberry Pi with Linux / / Peter Membrey, David Hows
Pubbl/distr/stampa	[Berkeley, Calif.], : Apress, 2013
ISBN	9781430248224 143024822X
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (280 p.)
Collana	Technology in action
Altri autori (Persone)	HowsDavid
Disciplina	004.165
Soggetti	Microprocessors Graphical user interfaces (Computer systems) Scripting languages (Computer science) Operating systems (Computers)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Title Page; Copyright Page; Dedication Page; Contents at a Glance; Table of Contents; About the Authors; About the Technical Reviewer; Acknowledgments; Introduction; Why Eat Raspberry Pi?; It Only Costs 25; MORE PI!; Experiment in Safety; Independence; Low Power; The Ingredients for a Raspberry Pi; ARM CPU; 512MB of RAM; GPU; Ethernet Port (Model B only); USB; GPIO Ports; Baked to Perfection; Whistle-Stop

Tour; Your First Bite of Raspberry Pi; Surveying the Landscape; Remodeling the Landscape; Getting Comfortable on the Command Line; Storing Stuff and then (Hopefully) Finding It Again
Getting Down to BusinessEditing Files; From Beginner to Admin; Magic Spells for the Command Line (aka Scripting); Pi Web Server; Pi Web Server; WiPi: Making Your Pi Wireless; Th e Raspberry sPi: Security Cam and Messaging Service; MC-Pi: A Pi for All Your Media Needs; Onward; CHAPTER 1 Your First Bite of Raspberry Pi; Your Freshly Baked Pi Arrives; List of Ingredients; Micro USB lead; USB Power Adapter; HDMI Lead; HDMI Capable Display; SD Card; SD Card Reader; USB Keyboard and Mouse; Whew, We're Done!; Don't Panic!; Linux; What Is Linux?; Downloading Raspbian
Getting Raspbian onto Your SD CardUsing Image Writer on Windows; Using dd on the Mac; Finding the Terminal; Using the Terminal to Write the Image; First Boot; Configuring Your Pi; Expanding the Filesystem; Configuring the Keyboard; Changing the Password; Configuring the Locale; Changing the Time Zone; Allocating Memory; At Last! It's Configured!; Summary; CHAPTER 2 Surveying the Landscape; Welcome to LXDE; What Do We Have Here?; The Start Menu and Bottom Left of the Task Bar; And on the Right Side...; The Start Menu; Accessories; Debian Reference; File Manager; Image Viewer; Leafpad; LXTerminal Root TerminalXArchiver; Education; Scratch; Squeak; Internet; Programming; System Tools; Preferences; Desktop Preferences; Customizing the Look and Feel; Summary; CHAPTER 3 Getting Comfortable; Ye Olde Computer; Say Hello to the Dumb Terminal; Modern Terminals; Why Do We Still Care About These Things?; Simple; Fast; Lightweight; Powerful; Always Available; Convinced Yet?; Three Terminals; Console; Opening a Virtual Terminal in the GUI; Connecting via SSH; Setting Up an SSH Server on the Pi; Sorting Out an SSH Client; Putty for Windows; SSH on the Mac; Welcome to the Command Line Different ShellsSummary; CHAPTER 4 The File-Paths to Success; What Is a Filing System ?; More than One Filesystem; Separate Roots; Unified Filesystem; The Mac has to be Different; Bring it All Together; Everything as a File; Filesystem Layout; / (Root Directory); /root; /etc; /proc; /var; /boot; /bin and /sbin; /dev; /home; /lib; /lost+found; /mnt; /media; /usr; /opt; /srv; /sys; /tmp; Wrapping it Up; Putting it to Work; Where Are We? Using pwd; What's in Here with Us? Using ls; Creating Files to Play with: Using Touch; Somewhere to Store our Files: Using mkdir
Making Use of a New Directory: Using the mv Command

Sommario/riassunto

Learn Raspberry Pi with Linux will tell you everything you need to know about the Raspberry Pi's GUI and command line so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi with a monitor, keyboard and mouse, and you'll discover that what may look unfamiliar in Linux is really very familiar. You'll find out how to connect to the internet, change your desktop settings, and you'll get a tour of installed applications. Next, you'll take your first steps toward being a Raspberry Pi expert by learning how to get around at the Linux command line. You'll learn about different shells, including the bash shell, and commands that will make you a true power user. Finally, you'll learn how to create your first Raspberry Pi projects: Making a Pi web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service: find out who's dropping by Making a Pi media center: stream videos and music from your Pi Raspberry Pi is awesome, and it's Linux. And it's awesome because it's Linux. But if you've never used Linux or worked at the Linux command line before, it can be a bit daunting. Raspberry Pi is an

amazing little computer with tons of potential. And Learn Raspberry Pi with Linux can be your first step in unlocking that potential.