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A recipe for having fun and getting  
things done with the Raspberry Pi The  
Raspberry Pi makes it easy to learn  
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programming, and Raspberry Pi For Dummies makes it even easier! Using this extremely affordable and compact computer, you can learn to code in languages like Scratch and Python, explore how electronics work, create computer-generated buildings in Minecraft and music in Sonic Pic,

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become Linux-savvy, make Internet-of-Things devices, or just play around! This book gets you up and running on your Raspberry Pi, starting with setting it up, downloading the operating system, and using the desktop environment. Then, the only limit is your imagination! It doesn't matter

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whether you have a Raspberry Pi 4, Raspberry Pi 400, Raspberry Pi Zero W or an older model: we've got you covered. Raspberry Pi For Dummies explores the latest technology—the Raspberry Pi 4 and 400, Scratch 3 programming language, new games bundled with the Raspberry Pi, and the

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hottest Add-Ons out there. This introductory guide is the perfect place to start if you want to get a taste of everything the Raspberry Pi can do! Set up your Raspberry Pi, install the operating system, and connect to the Internet Learn the basics of the Linux desktop and Linux shell so you can



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program, work, and play Use Python, Scratch, and Sonic Pi to write your first programs and make games and digital music Discover how circuits work hand-in-hand with your Pi If you want to make the most of the Raspberry Pi for school, work, or play, you'll love this easy-to-read reference.

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Get your slice of Raspberry Pi With the invention of the unique credit card-sized single-board computer comes a new wave of hardware geeks, hackers, and hobbyists who are excited about the possibilities with the Raspberry Pi—and this is the perfect

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guide to get you started. With this down-to-earth book, you'll quickly discover why the Raspberry Pi is in high demand! There's a reason the Raspberry Pi sold a million units in its first year, and you're about to find out why! In Raspberry Pi For Dummies, 3rd Edition veteran tech authors Sean

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McManus and Mike Cook make it easier than ever to get you up and running on your Raspberry Pi, from setting it up, downloading the operating system, and using the desktop environment to editing photos, playing music and videos, and programming with Scratch—and

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everything in between. Covers connecting the Pi to other devices such as a keyboard, mouse, monitor, and more Teaches you basic Linux System Admin Explores creating simple hardware projects Shows you how to create web pages Raspberry Pi For Dummies, 3rd Edition makes

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computing as easy as pie!

Master your Raspberry Pi in a flash with this easy-to-follow guide *Raspberry Pi For Dummies*, 2nd Edition is a comprehensive guide to this exciting technology, fully updated to align with the Rev 3 board. Veteran

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technology authors provide expert insight and guidance that get you up and running fast, allowing you to explore the full capabilities of your Raspberry Pi. The clear, concise style makes this guide easy to follow for complete beginners, providing step-by-step instruction throughout the setup

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process and into systems administration and programming. Updated information includes coverage of Noobs, PiStore and making music with SonicPi, in addition to basic Raspberry Pi operations and features. Raspberry Pi For Dummies, 2nd Edition teaches you everything



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you need to know to get the most out of your device. Even if you've never ventured beyond e-mail and web browsers, this guide will give you the skills and confidence you need to take advantage of everything the Raspberry Pi has to offer. Find out how to install the operating system and connect to

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other devices Install, use and remove software like a pro Learn basic Linux systems administration Program with Scratch, Python and Minecraft on your Raspberry Pi The Raspberry Pi has awakened a whole new generation of hardware geeks, hackers and hobbyists, and now it's your turn to join

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their ranks. Learning how to fully use your new technology is the first step, and Raspberry Pi For Dummies, 2nd Edition is the ideal companion guide.

The one-stop resource for all your Python queries Powerful and flexible, Python is one of the most popular

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programming languages in the world. It's got all the right stuff for the software driving the cutting-edge of the development world—machine learning, robotics, artificial intelligence, data science, etc. The good news is that it's also pretty straightforward to learn, with a simplified syntax, natural-

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language flow, and an amazingly supportive user community. The latest edition of Python All-in-One For Dummies gives you an inside look at the exciting possibilities offered in the Python world and provides a springboard to launch yourself into wherever you want your coding career

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to take you. These 7 straightforward and friendly mini-books assume the reader is a beginning programmer, and cover everything from the basic elements of Python code to introductions to the specific applications where you'll use it. Intended as a hands-on reference, the

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focus is on practice over theory, providing you with examples to follow as well as code for you to copy and start modifying in the "real world"—helping you get up and running in your area of interest almost right away. This means you'll be finishing off your first app or building and

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remote-controlling your own robot much faster than you can believe. Get a thorough grounding in the language basics Learn how the syntax is applied in high-profile industries Apply Python to projects in enterprise Find out how Python can get you into hot careers in AI, big data, and more Whether you're



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a newbie coder or just want to add Python to your magic box of tricks, this is the perfect, practical introduction—and one you'll return to as you grow your career.

An introduction to coding for kids  
Coding know-how is the coolest new

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tool kids can add to their creativity toolboxes—and all they need to get started is a computer connected to the internet and the lessons in this book. Easy! The book offers fun step-by-step projects to create games, animations, and other digital toys while teaching a bit about coding along the way. Plus,

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each project has an end goal to instill confidence and a sense of accomplishment in young coders once the project comes to life. Create simple applications in Scratch to learn how to build things with coding Experiment with “real” coding with tools built in JavaScript Use free online

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tools Share what you build with friends, family, and teachers Get creative and get coding!

Use your Raspberry Pi to get smart about computing fundamentals In the 1980s, the tech revolution was kickstarted by a flood of relatively

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inexpensive, highly programmable computers like the Commodore. Now, a second revolution in computing is beginning with the Raspberry Pi.

Learning Computer Architecture with the Raspberry Pi is the premier guide to understanding the components of the most exciting tech product

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available. Thanks to this book, every Raspberry Pi owner can understand how the computer works and how to access all of its hardware and software capabilities. Now, students, hackers, and casual users alike can discover how computers work with Learning Computer Architecture with the

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Raspberry Pi. This book explains what each and every hardware component does, how they relate to one another, and how they correspond to the components of other computing systems. You'll also learn how programming works and how the operating system relates to the

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Raspberry Pi's physical components. Co-authored by Eben Upton, one of the creators of the Raspberry Pi, this is a companion volume to the Raspberry Pi User Guide An affordable solution for learning about computer system design considerations and experimenting with low-level



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programming Understandable descriptions of the functions of memory storage, Ethernet, cameras, processors, and more Gain knowledge of computer design and operation in general by exploring the basic structure of the Raspberry Pi The Raspberry Pi was created to bring

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forth a new generation of computer scientists, developers, and architects who understand the inner workings of the computers that have become essential to our daily lives. Learning Computer Architecture with the Raspberry Pi is your gateway to the world of computer system design.

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A comprehensive and accessible introduction to the development of embedded systems and Internet of Things devices using ARM mbed  
Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed offers an accessible guide

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to the development of ARM mbed and includes a range of topics on the subject from the basic to the advanced. ARM mbed is a platform and operating system based on 32-bit ARM Cortex-M microcontrollers. This important resource puts the focus on ARM mbed NXP LPC1768 and FRDM-

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K64F evaluation boards. NXP LPC1768 has powerful features such as a fast microcontroller, various digital and analog I/Os, various serial communication interfaces and a very easy to use Web based compiler. It is one of the most popular kits that are used to study and create projects.

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FRDM-K64F is relatively new and largely compatible with NXP LPC1768 but with even more powerful features. This approachable text is an ideal guide that is divided into four sections; Getting Started with the ARM mbed, Covering the Basics, Advanced Topics and Case Studies. This getting started

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guide: Offers a clear introduction to the topic Contains a wealth of original and illustrative case studies Includes a practical guide to the development of projects with the ARM mbed platform Presents timely coverage of how to develop IoT applications Designing Embedded Systems and the Internet

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of Things (IoT) with the ARM mbed offers students and R&D engineers a resource for understanding the ARM mbed NXP LPC1768 evaluation board.

Articles on the history and culture of

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the French capital augment  
information on tourist attractions,  
hotels, restaurants, and shopping  
facilities throughout the city

Expand Raspberry Pi capabilities with  
fundamental engineering principles  
Exploring Raspberry Pi is the

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innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or

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external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to

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achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project. The Raspberry Pi's most

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famous feature is its adaptability. It can be used for thousands of electronic applications, and using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to

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incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing, controlling, and communicating with almost any component Explore

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advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

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