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Explains how to leverage the revolutionary Raspberry Pi computer in order to learn the versatile Python programming language. Original.

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power of the Raspberry Pi to create 12 cool projects using simple code and common materials like a webcam, microphone, and LED lights. Step-by-step instructions and detailed diagrams guide you through each project. After a brief introduction to the Python

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programming

language, you'll learn

how to: □ Create an

LED night-light that

turns itself on and off

□ Set up a Raspberry

Pi camera to take

selfies and videos □

Set up a webcam to

stream video to your

cell phone □

Manipulate

environments in

Minecraft □ Hijack

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local radio waves to play your own songs and recordings □ Configure Raspberry Pi to send texts to a cell phone □ Track your family members' locations via wi-fi and Bluetooth □ Create an MP3 player □ Set up a camera to take motion-triggered photos of wildlife □ Control the electronics in your

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home with your cell phone ☐ Teach Raspberry Pi to read aloud posts from your Twitter feed ☐ Play "Rock, Paper, Scissors" against Raspberry Pi  
Raspberry Pi Projects for Kids will deliver hours of fun and endless inspiration!  
The official book on the Rust programming

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language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust

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offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their



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knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced

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concepts, such as: □  
Ownership and  
borrowing, lifetimes,  
and traits □ Using  
Rust's memory safety  
guarantees to build  
fast, safe programs □  
Testing, error  
handling, and  
effective refactoring □  
Generics, smart  
pointers,  
multithreading, trait  
objects, and

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advanced pattern matching  $\square$  Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies  $\square$  How best to use Rust's advanced compiler with compiler-led programming techniques You'll find plenty of code

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examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust

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macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

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including RISC OS,  
Pidora and Arch  
Linux. Finally,  
discover the  
Raspberry Pi board  
itself, and find out  
how you can use the  
GPIO port to connect  
and control the  
outside world using  
simple examples.  
RASPBERRY PI  
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show you many things

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including how to:  
select the bare  
essentials you will  
need to get your  
Raspberry Pi up and  
running. copy and  
install the Raspbian  
Operating System.  
identify and connect  
everything together,  
switch it on and get it  
all working. use the  
command line to  
issue instructions and

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Operating System and become familiar with Pidora and Arch Linux. understand the components on the Raspberry Pi and what they do. connect devices to the GPIO port and use them from a language of your choice. make your Raspberry Pi go faster by selecting Turbo mode. ideal for

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beginners, the RASPBERRY PI INSIDER GUIDE assumes no prior knowledge and will turn you into an expert. This book covers the all models including the A, B, A+ and B+.

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Raspberry Pi  
Raspberry Pi  
**Presents**  
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**out of the**

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truly compact  
computer It's  
the size of a  
credit card, it  
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smartphone, it  
runs on open-  
source Linux,  
and it holds the  
promise of  
bringing**

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**programming  
and playing to  
millions at low  
cost. And now  
you can learn  
how to use this  
amazing  
computer from  
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Eben Upton, in  
Raspberry Pi  
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guide gets you  
up and running  
on Raspberry  
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software, write  
basic programs,  
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multimedia  
centers, and  
more. Gets you  
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Pi, a high-tech  
computer the**

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card Helps  
educators teach  
students how to  
program Covers  
connecting  
Raspberry Pi to  
other hardware,  
such as  
monitors and  
keyboards, how  
to install  
software, and**



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Raspberry Pi as  
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computer, write  
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in Python,  
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center Adults,  
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devoted  
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that you've got  
a Raspberry Pi,  
get the very  
most out of it  
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**started with**  
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**programming**  
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**conceived of as**  
**a fun, easy way**  
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**to learn  
computer  
programming,  
the Raspberry  
Pi quickly  
evolved into a  
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computer that  
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creators of the  
Raspberry Pi,  
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fills you in on  
everything you**

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get up and  
running on your  
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no time,  
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to:**

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common  
problems • Use  
the GPIO port**

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or read a  
button Meet  
the Raspberry  
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to make the  
most out of the  
world's first  
truly compact  
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With the  
invention of the  
unique credit  
card-sized  
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wave of  
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**veteran tech  
authors Sean  
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**

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**system, and  
using the  
desktop  
environment to  
editing photos,  
playing music  
and videos, and  
programming  
with  
Scratch—and  
everything in  
between.**

**Covers**

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Pi to other  
devices such as  
a keyboard,  
mouse,  
monitor, and  
more Teaches  
you basic Linux  
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*Raspberry Pi is*

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*taking off like  
a rocket! You  
can use this  
amazing, dirt-  
cheap, credit  
card-sized  
computer to  
learn powerful  
hardware hacking  
techniques as  
you build  
incredibly  
creative and  
useful projects!*

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*This complete,  
full-color guide  
requires  
absolutely no  
experience with  
either hardware  
hacking or  
computer  
programming.  
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guide you  
through each  
project, and the  
step-by-step*

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*instructions are  
stunningly clear  
and easy!*

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

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*highly  
programmable  
computers like  
the Commodore.  
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revolution in  
computing is  
beginning with  
the Raspberry  
Pi. Learning  
Computer  
Architecture  
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Raspberry Pi is*

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understanding  
the components  
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book, every  
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owner can  
understand how  
the computer*

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access all of  
its hardware and  
software  
capabilities.*

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hackers, and  
casual users  
alike can  
discover how  
computers work  
with Learning  
Computer  
Architecture*

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*with the  
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*

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*systems. You'll also learn how programming works and how the operating system relates to the Raspberry Pi's physical components. Co-authored by Eben Upton, one of the creators of the Raspberry Pi, this is a*



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*companion volume  
to the Raspberry  
Pi User Guide An  
affordable  
solution for  
learning about  
computer system  
design  
considerations  
and  
experimenting  
with low-level  
programming  
Understandable*

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*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*

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*Pi The Raspberry Pi was created to bring 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.*

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*Learning  
Computer  
Architecture  
with the  
Raspberry Pi is  
your gateway to  
the world of  
computer system  
design.*

*The Raspberry Pi  
Pico offers a  
single push  
button, which  
can be used to*

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*insert USB  
storage mode  
during startup  
and standard  
installation, as  
well as a single  
LED. Displays 26  
of the 30 GPIO  
pins on the  
RP2040,  
including three  
of the four  
analog inputs,  
on 0.1 pads; you*

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*can insert  
solder threads  
into these pads  
or take  
advantage of  
their integrated  
edges to make  
solder Pico  
directly on the  
carrier board.  
Volume customers  
will be able to  
purchase pre-  
used Pi Pico*

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*units: in fact,  
we already offer  
Pico to our  
approved dealers  
in this way. The  
layout of the  
Raspberry Pi  
Pico PCB was  
done in  
conjunction with  
the RP2040  
silicon and  
package, and we  
are really*

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*excited about  
how it came  
about: a two-  
layer PCB with  
solid ground  
planes and a  
"just working"  
breakout  
GPIO. With great  
on-chip memory,  
sophisticated  
dual-core  
processor,  
deterministic*



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*bus fabric, and rich setup with our unique Programmable I / O (PIO) system, the RP2040 gives professional users unparalleled power and flexibility. With detailed documentation, the improved*

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*MicroPython port and the UF2 bootloader in ROM have the lowest access restriction for first-time users and hackers. The RP2040 is uniquely manufactured in a fabulous modern of 40nm processor, that*

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*delivers a very high performance, low power consumption, with low leakage, with a variety of low power options to support extended battery life. Regardless of whether the Raspberry Pi*

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Raspberry Pi  
bietet für wenig  
Geld viele Baste  
llmöglichkeiten;  
deutsche Fassung  
wird um weitere  
Bastelkapitel  
ergänzt!*

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projects Create  
innovative  
programs and fun  
games on your  
tiny yet powerful  
Raspberry Pi. In  
this book,  
electronics guru  
Simon Monk  
explains the  
basics of  
Raspberry Pi  
application

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development,  
while providing  
hands-on  
examples and  
ready-to-use  
scripts. See how  
to set up  
hardware and  
software, write  
and debug  
applications,  
create user-  
friendly



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interfaces, and control external electronics. Do-it-yourself projects include a hangman game, an LED clock, and a software-controlled roving robot. Boot up and configure your Raspberry Pi. Navigate files, folders, and

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menus Create

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using the IDLE

editor Work with  
strings, lists, and

functions Use and  
write your own

libraries, modules,  
and classes Add

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your programs

Develop

interactive games

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with Pygame

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devices through  
the GPIO port

Build a Raspberry  
Pi Robot and LED  
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sional-quality

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more about the  
raspberry pi or  
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installation to  
system

customization.

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growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and

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connect to other  
devices

Understand Linux  
System Admin  
nomenclature and  
conventions Write  
your own

programs using  
Python and

Scratch Extend  
the Pi's

capabilities with  
add-ons like Wi-Fi

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dongles, a touch screen, and more. The credit-card sized Raspberry Pi has become a global phenomenon.

Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-



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started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to

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*new users and several new models, the Raspberry Pi ecosystem continues to expand—along with a lot of new questions about the Pi's capabilities. The second edition of*

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*this popular  
cookbook provides  
more than 240  
hands-on recipes  
for running this tiny  
low-cost computer  
with Linux,  
programming it  
with Python, and  
hooking up  
sensors, motors,  
and other hardwar*

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*e—including  
Arduino and the  
Internet of Things.  
Prolific hacker and  
author Simon  
Monk also teaches  
basic principles to  
help you use new  
technologies with  
Raspberry Pi as its  
ecosystem  
continues to*

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*develop. This cookbook is ideal for programmers and hobbyists familiar with the Pi through resources, including Getting Started with Raspberry Pi (O'Reilly). Python and other code examples from the*

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*book are available  
on GitHub. Set up  
your Raspberry Pi  
and connect to a  
network Work with  
its Linux-based  
operating system  
Program  
Raspberry Pi with  
Python Give your  
Pi "eyes" with  
computer vision*



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GPIO port, and the  
camera module  
About This Book  
Learn the  
fundamentals of  
Python scripting  
and application  
programming  
Design user-  
friendly command-  
line and graphical*

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with switches,  
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Understand how  
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the GPIO to  
control more  
complex  
hardware such  
as motors Add  
USB control  
hardware to  
control a  
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with 12 servos  
Include speech

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recognition so that projects can receive commands Enable the robot to communicate with the world around it by adding speech output Control the robot from

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*and how to apply to  
an actual control  
system When AI  
might be  
appropriate to  
include in a system  
Constraints and  
limitations of the  
Raspberry Pi AI  
implementation Who  
This Book Is For  
Hobbyists, makers,  
engineers involved  
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on the Pi's board  
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Start programming***



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skills you  
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