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through setting up
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using Python 3.6, and
introducing the first
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Edition. by Simon

Monk. Released

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Publisher (s): O'Reilly

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by guiding you
through setting up
Raspberry Pi 3,
performing tasks
using Python 3.6, and

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introducing the first steps to interface with electronics. As you work through each chapter, you will build your skills and apply them as you progress.

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Edition

In this book, we have

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used Python 3.6,
which is also
compatible with
Python 3.5 and 3.3.

The Raspberry Pi
family – a brief
history of Pi Since its
release, Raspberry Pi
has come in various
iterations, featuring
both small and large
updates and
improvements to the
original Raspberry Pi

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Model B unit. For
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Chapter 4, Predicting

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Sentiments in Words,

explains how Naive Bayes classifiers and logistic regression classifiers are

constructed to analyze the sentiment in words.

Chapter 5, Creating Games and Graphics, explains how to create a drawing

application and graphical games

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using the Tkinter
canvas.

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them at the
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For most of the software-based recipes, all you need is a Raspberry Pi. I recommend a Raspberry Pi model B. For recipes that involve making your own hardware to interface with the Raspberry Pi, I have tried to make good use of ready-made modules, as well as

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Raspberry Pi only; no additional hardware is required beyond a standard setup.

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practical uses of
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book. It gives a
detailed explanation
of LED, motors,
sensors and many
more components to
which micro

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15 Best Raspberry Pi
Books for Beginners
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This cookbook is ideal
for programmers and
hobbyists familiar
with the Pi through
resources, including
Getting Started with
Raspberry Pi 3

(O ' Reilly). Python
Page 31/112

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and other code
examples from the
book are available on
GitHub.

(Recommended and
reviewed by Daniel
Oh)

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Raspberry Pi 3

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April 30, 2018. by Tim
Cox (Author), Dr.

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Steven Lawrence

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learn how to build
text classifiers,

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predict sentiments in
words, develop
applications using
the popular Tkinter
library, and create
games by controlling
graphics on your
screen. You will
harness the power of
a built in graphics
processor using Pi3D
to generate your own
high-quality 3D
graphics and

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environments. You
will understand how
to connect Raspberry
Pi 's hardware pins
directly to control
electronics, from
switching on LEDs
and responding to
push buttons to
driving motors and
servos. Get to grips
with monitoring
sensors to gather real-
life data, using it to

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Control other devices,
and viewing the
results over the
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apply what you have
learned by creating
your own Pi-Rover or
Pi-Hexipod robots.
You will also learn
about sentiment
analysis, face
recognition
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building neural

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knowledge of Python
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will be an added
advantage.

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"The world of Raspberry Pi is evolving quickly, with many new interface boards and software libraries becoming available all the time. In this cookbook, prolific hacker and author Simon Monk provides more than 200 practical recipes for running this tiny low-cost computer

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with Linux,
programming it with
Python, and hooking
up sensors, motors
and other
hardware--including
Arduino. You'll also
learn basic principles
to help you use new
technologies with
Raspberry Pi as its
ecosystem develops.
Python and other
code examples from

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introducing the first

steps to interface

with electronics. As

you work through

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each chapter, you will build your skills and apply them as you progress. You will learn how to build text classifiers, predict sentiments in words, develop applications using the popular Tkinter library, and create games by controlling graphics on your screen. You will

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harness the power of a built in graphics processor using Pi3D to generate your own high-quality 3D graphics and environments. You will understand how to connect Raspberry Pi's hardware pins directly to control electronics, from switching on LEDs and responding to

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push buttons to driving motors and servos. Get to grips with monitoring sensors to gather real-life data, using it to control other devices, and viewing the results over the internet. You will apply what you have learned by creating your own Pi-Rover or Pi-Hexipod robots.

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You will also learn about sentiment analysis, face recognition techniques, and building neural network modules for optical character recognition. Finally, you will learn to build movie recommendations system on Raspberry Pi 3. What you will

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and run Raspberry Pi
3 Build text classifiers
and perform
automation using
Python Predict
sentiments in words
and create games
and graphics Detect
edges and contours
in images Build
human face
detection and
recognition system

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Use Python to drive hardware Sense and display real-world data Build a neural network module for optical character recognition Build movie

recommendations system Who this book is for This book is for anyone who wants to master the skills of Python

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programming using
Raspberry Pi 3. Prior
knowledge of Python
will be an added
advantage.

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Cookbook format,
presenting examples
in the style of
recipes. This allows

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topic, providing you with the tools and information to jump right in. Readers are expected to be familiar with programming concepts and Python (where possible Python 3 is used), although beginners should manage with the help of a good Python reference

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electronics is
required; however for
the hardware
sections you will
need some basic
electronic componen
ts/household tools to
build some of the
projects.

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Unleash the power of
the Raspberry Pi 3

board to create
interesting IoT

projects Key Features

Learn how to

interface various

sensors and actuators

with the Raspberry Pi

3 and send this data

to the cloud. Explore

the possibilities

offered by the IoT by

using the Raspberry

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Pi to upload

measurements to

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practical guide that

will help you create a

Raspberry Pi robot

using IoT modules.

Book Description This

book is designed to

introduce you to IoT

and Raspberry Pi 3. It

will help you create

interesting projects,

such as setting up a

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weather station and measuring temperature and humidity using sensors; it will also show you how to send sensor data to cloud for visualization in real-time. Then we shift our focus to leveraging IoT for accomplishing Raspberry Pi 3 complex tasks, such

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features of Raspberry

Pi Learn to integrate

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using communication

protocols such as

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DIY projects using

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Things, then this is
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understanding of
electronics, the

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diving into as much or as little theory as you ' re comfortable with. Author Simon Monk (Raspberry Pi Cookbook) breaks down this complex subject into several topics, from using the right transistor to building and testing projects and prototypes. With this book, you can quickly

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harness the power of a built in graphics processor using Pi3D to generate your own high-quality 3D

graphics and environments. You will understand how to connect Raspberry Pi's hardware pins

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book contains a
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Over 70 Recipes

Over 80 practical and
interesting recipes
that explore the
plethora of
functionalities and
opportunities

available with Pi 3
Raspberry Pi Zero

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About This Book

Deep dive into the components of the small yet powerful Raspberry Pi Zero Get

into grips with integrating various hardware,

programming, and networking concepts with the so-called

“cheapest computer” Explore

the functionalities of

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Raspberry Pi 3

this \$5 chip through practical recipes Who This Book Is For This book is for

programmers and hobbyists who are eager to dive deep into the Raspberry Pi Zero. If you have

basic or zero knowledge of the Raspberry Pi Zero, or if you looking for examples of ways to

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utilize the Raspberry Pi's GPIO interface, then this book is ideal for you. Basic

knowledge of Python will be beneficial, and experience with circuitry and

electronics will be needed for the later chapters in the book.

What You Will Learn

Set up your Raspberry Pi 3

Raspberry Pi Zero

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with the operating system, networking, and different interfaces Get a

hands-on introduction to Linux, Python, and shell scripts with the

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motors, transistors, buzzers, audio, read

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switches, and
interrupts with the
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the web interface and
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Ethernet on the
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Make your Raspberry
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sensor node and
remotely monitor
your data In Detail
The Raspberry Pi
Zero, one of the most
inexpensive, fully-
functional computers
available, is a
powerful and
revolutionary
product developed
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world for the makers
out there. This book
will give you
expertise with the
Raspberry Pi Zero,
providing all the
necessary recipes
that will get you up
and running. In this
book, you will learn
how to prepare your
own circuits rather
than buying the

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expensive add-ons available in the market. We start by showing you how to set up and manage the Pi Zero and then move on to configuring the hardware, running it with Linux, and programming it with Python scripts. Later, we integrate the Raspberry Pi Zero

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with sensors, motors,
and other hardware.

You will also get
hands-on with

interesting projects
in media centers, IoT,
and more. Style and
approach This recipe-

based book will
ensure you gain an
intermediate-level
knowledge of the

Raspberry Pi Zero. 3

This book contains

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comprehensive
illustrations with
specific schematics
for each circuit
diagram.

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Raspberry Pi to the
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Book Install, administer, and maintain your Raspberry Pi Explore a new world of computing with this low cost, credit-card sized computer Connect your Raspberry Pi to other devices on local networks and utilise IoT services Who This Book Is For This book

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is intended for students, scientists, and hobbyists who wish to connect their Raspberry Pi to other devices on a local area network or to the Internet of Things. Whether you are new to the Raspberry Pi, or already have a lot of experience with it, the recipes in this

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book will be a valuable reference to you and inspire your next project. You will want to have this

book handy as a guide whenever you are working on networking projects

for the Raspberry Pi. What You Will Learn

Install, update, and upgrade your Raspberry Pi 3

Raspberry Pi

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Configure a firewall to protect your Raspberry Pi and other devices on your local area network

Set up file sharing, remote access, a web server, and your own wiki Create a wireless access point and use it as an Internet gateway Stream

video, audio, and local device data to

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IoT services as well as
your own websites
Control devices
connected to the
Raspberry Pi from
your phone via the
web Create a giant
video wall using
multiple monitors
and Raspberry Pis In
Detail With
increasing interest in
Maker Projects and
the Internet of Things

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Raspberry Pi 3
(IoT), students,
scientists, and
hobbyists are using
the Raspberry Pi as a
reliable, inexpensive
platform to connect
local devices to
Internet services. This
book begins with
recipes that are
essential to installing
the Raspberry Pi and
configuring it for
network access. Then

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it continues with recipes on installing common networking services such as firewalls and file sharing. The final chapters include recipes for network monitoring, streaming data from the Raspberry Pi to IoT services, and using clusters of Raspberry Pis to store

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and analyze large volumes of data.

Style and approach

This book contains a collection of

practical, engaging recipes that will

guide you through enhancing your

Raspberry Pi's existing network.

Expand Raspberry Pi capabilities with

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Fundamental For
engineering
principles Exploring
Raspberry Pi is the
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

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Understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and

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programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that

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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 famous feature is its adaptability. It can be used for thousands of electronic applications, and

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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 incorporate
any electronics into
any project. Develop

the Linux and

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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
advanced
applications with

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video, audio, real-
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and more Be free to
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with Exploring
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Potential Of
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