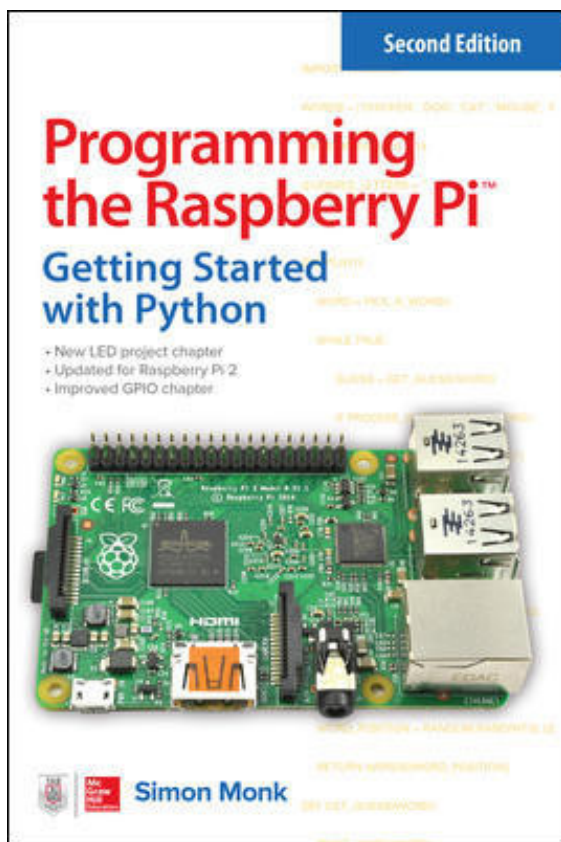


## Programming the Raspberry Pi, Second Edition: Getting Started with Python



- **Authors:** Simon Monk
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- **Format:** Print
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## Description

An updated guide to programming your own Raspberry Pi projects. Learn to create inventive programs and fun games on your powerful Raspberry Pi—with no programming experience required. This practical book has been revised to fully cover the new Raspberry Pi 2, including upgrades to the Raspbian operating system. Discover how to configure hardware and software, write Python scripts, create user-friendly GUIs, and control external electronics. DIY projects include a hangman game, RGB LED controller, digital clock, and RasPiRobot complete with an ultrasonic rangefinder.

- Updated for Raspberry Pi 2
- Set up your Raspberry Pi and explore its features
- Navigate files, folders, and menus
- Write Python programs using the IDLE editor
- Use strings, lists, functions, and dictionaries
- Work with modules, classes, and methods
- Create user-friendly games using Pygame
- Build intuitive user interfaces with Tkinter
- Attach external electronics through the GPIO port
- Add powerful Web features to your projects

## Contents

1. Introduction
2. Getting Started
3. Python Basics
4. Classes and Methods
5. Strings, Lists and Dictionaries
6. Graphical User Interfaces
7. Connecting Electronics to the Raspberry Pi
8. Serial Interfaces
9. RGB LED Slider Example
10. Thermostat
11. The Raspberry Pi Bot
12. What Next?

## Additional Information

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This is the second edition of my book "Programming the Raspberry Pi". It has been fully updated for the new Raspberry Pi models and has much improved and expanded sections on using the GPIO pins. Errata: Page 80 and 81. When pickling on Python 3, the files must be opened with the options "wb" and "rb" and not just "w" and "r" as shown in the code listings. Thanks to Takashi Yamanoue for finding this. Page 127. `ser=serial.Serial('/dev/ttyACMO',9600)`, this does not work. Start your review of Programming the Raspberry Pi: Getting Started with Python. Write a review. Oct 13, 2016 Karel Baloun rated it really liked it - review of another edition. Get this if you are completely new to Raspberry Pi AND you are interested in an intro to hardware manipulation. Plan to skip the python intro, because if you are this much of a hobbyist, you already know it, and better is probably free online personalized more to your background and needs. I reached for the 4-star because this blend of simple software powering so easily rather complicated hardware, with every single part