



Programming the Raspberry Pi: Getting Started with Python

By Simon Monk

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Programming the Raspberry Pi: Getting Started with Python By Simon Monk

Program your own Raspberry Pi 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 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 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 menus
- Create Python programs using the IDLE editor
- Work with strings, lists, and functions
- Use and write your own libraries, modules, and classes
- Add Web features to your programs
- Develop interactive games with Pygame
- Interface with devices through the GPIO port
- Build a Raspberry Pi Robot and LED Clock
- Build professional-quality GUIs using Tkinter

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Editorial Review

About the Author

Dr. Simon Monk has a degree in Cybernetics and Computer Science and a PhD in Software Engineering. He spent several years as an academic before he returned to industry, co-founding the mobile software company Momote Ltd. Dr. Monk has been an active electronics hobbyist since his early teens and is a full-time writer on hobby electronics and open source hardware. He is the author of numerous electronics books, including *30 Arduino Projects for the Evil Genius* and *Arduino + Android Projects for the Evil Genius*, as well as co-author of *Practical Electronics for Inventors*, Third Edition.

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