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# Raspberry Pi Cookbook for Python Programmers

By Tim Cox

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Raspberry Pi Cookbook for Python Programmers By Tim Cox

## In Detail

The Raspberry Pi foundation has been selling their computers since 2012 with the aim of inspiring programmers and engineers.

Raspberry Pi Cookbook for Python Programmers is a practical guide for getting the most out of this little computer. It will guide you through the many uses of the Raspberry Pi and allow you to showcase the best it has to offer. Discover what the Raspberry Pi has to offer using detailed Python 3 examples that you can adapt and extend; see where your creativity takes you!

"Raspberry Pi Cookbook for Python Programmers" begins by guiding you through setting up the Raspberry Pi, performing tasks using Python 3 and introduces the first steps to interface with electronics. As you work through each chapter you will build up your skills and knowledge and apply them as you progress throughout the book, delving further and further into the unique abilities and features of the Raspberry Pi.

Later, you will learn how to automate tasks by accessing files, build applications using the popular Tkinter library and create games by controlling graphics on screen. You will harness the power of the built-in graphics processor by using Pi3D to generate your own high quality 3D graphics and environments. Connect directly to the Raspberry Pi's hardware pins to control electronics from switching on LEDs and responding to push buttons right through to driving motors and servos. Learn how to monitor sensors to gather real-life data and use it to control other devices, and view the results over the Internet. Apply what you have learnt by creating your own Pi-Rover or Pi-Hexipod robots. Finally, we will explore using many of the purpose-built add-ons available for the Raspberry Pi, as well as interfacing with common household devices in new ways.

The "Raspberry Pi Cookbook for Python Programmers" will allow you to discover the vast range of abilities this micro-computer has. By following the clear examples you can pick up many new skills and arm yourself with the tools to create your own exciting and interesting projects.

## Approach

"Raspberry Pi Cookbook for Python Programmers" is written in a Cookbook format, presenting examples in the style of recipes. This allows you to go directly to your topic of interest, or follow topics throughout a chapter to gain a thorough in-depth knowledge.

## Who this book is for

The aim of this book is to bring you a broad range of Python 3 examples and practical ideas which you can develop to suit your own requirements. By modifying and combining the examples to create your own projects you learn far more effectively with a much greater understanding. Each chapter is designed to become a foundation for further experimentation and discovery of the 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 book and background reading. No prior knowledge of the Raspberry Pi or electronics is required; however for the hardware sections you will need some basic electronic components/household tools to build some of the projects.

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### Editorial Review

#### About the Author

Tim Cox Tim Cox lives in England with his wife and two young daughters and works as a software engineer. His passion for programming can be traced back to one Christmas in the mid 1980s when he received a Sinclair Spectrum 48k+ home computer (a joint present with his two elder brothers). By typing out and modifying BASIC programs, while dreaming about building robots, an interest in computers and electronics was sparked, which has never faded. This interest saw him through university, where he earned a BEng in Electronics and Electrical Engineering, and into a career in developing embedded software for a wide range of applications, for automotive, aerospace, and the oil industry, among others. Keen to support the vision behind the Raspberry Pi, reignite engineering in schools, and encourage a new generation of engineers, Tim cofounded the MagPi magazine. Thanks to the dedication and time of the volunteers who contribute to it every month, it continues to have monthly issues and attract an ever increasing number of readers (and writers) worldwide. Through his site PiHardware.com, Tim produces electronic kits and helps people learn about the Raspberry Pi and hardware interfacing; each of them is supported with detailed instructions and tutorials to help novices build the knowledge and skills for their projects. This is Tim's first ever book; it mirrors his own experience of discovering the Raspberry Pi and showcasing its fantastic abilities.

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