# Getting Started with Python and Raspberry Pi

*By Dan Nixon*

**Getting Started with Python and Raspberry Pi** By Dan Nixon

**Learn to design and implement reliable Python applications on the Raspberry Pi using a range of external libraries, the Raspberry Pis 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 user interfaces
- A step-by-step guide to learning Python programming with the Pi

## Who This Book Is For

This book is designed for those who are unfamiliar with the art of Python development and want to get to know their way round the language and the many additional libraries that allow you to get a full application up and running in no time.

## What You Will Learn

- Fundamentals of Python applications
- Designing applications for multi-threading
- Interacting with electronics and physical devices
- Debugging applications when they go wrong
- Packaging and installing Python modules
- User interface design using Qt
- Building easy to use command-line interfaces
- Connecting applications to the Internet

## In Detail

The Raspberry Pi is one of the smallest and most affordable single board computers that has taken over the world of hobby electronics and programming, and the Python programming language makes this the perfect platform to start coding with.

The book will start with a brief introduction to Raspberry Pi and Python. We will direct you to the official documentation that helps you set up your Raspberry Pi with the necessary equipment such as the monitor, keyboard, mouse, power supply, and so on. It will then dive right into the basics of Python programming. Later, it will focus on other Python tasks, for instance, interfacing with hardware, GUI programming, and more. Once you get well versed with the basic programming, the book will then teach you to develop Python/Raspberry Pi applications.

By the end of this book, you will be able to develop Raspberry Pi applications with Python and will have good understanding of Python programming for Raspberry Pi.

## Style and approach

An easy-to-follow introduction to Python scripting and application development through clear conceptual explanations backed up by real-world examples on the Raspberry Pi.

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## Editorial Review

About the Author

**Dan Nixon**

Dan Nixon is a software and electronics engineer living in the north of England. He has past experience of creating software for data analysis, process control, and business intelligence applications. In most of these projects, Python was one of the main languages used. Dan previously authored another book on the uses of the Raspberry Pi, called Raspberry Pi Blueprints, and has worked on many personal projects that use both Python and the Raspberry Pi.

## Users Review

**From reader reviews:**

**Myron Abbott:**

Now a day individuals who Living in the era where everything reachable by talk with the internet and the resources inside can be true or not need people to be aware of each info they get. How individuals to be smart in getting any information nowadays? Of course the answer is reading a book. Examining a book can help people out of this uncertainty Information especially this Getting Started with Python and Raspberry Pi book because this book offers you rich details and knowledge. Of course the details in this book hundred percent guarantees there is no doubt in it you probably know this.

**Virgie Tauber:**

Precisely why? Because this Getting Started with Python and Raspberry Pi is an unordinary book that the inside of the book waiting for you to snap it but latter it will distress you with the secret the item inside. Reading this book next to it was fantastic author who also write the book in such incredible way makes the content inside easier to understand, entertaining method but still convey the meaning entirely. So , it is good for you because of not hesitating having this any longer or you going to regret it. This phenomenal book will give you a lot of benefits than the other book have such as help improving your talent and your critical thinking approach. So , still want to postpone having that book? If I have been you I will go to the publication store hurriedly.

**Russell Pittman:**

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**Danielle Burdette:**

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