

## Pro Android Python With SI4a Writing Android Native Apps Using Python Lua And Beanshell Author Paul Ferrill Jul 2011

Google Android dominates the mobile market, and by targeting Android, your apps can run on most of the phones and tablets in the world. This new fourth edition of the #1 book for learning Android covers all modern Android versions from Android 4.1 through Android 5.0. Freshly added material covers new Android features such as Fragments and Google Play Services. Android is a platform you can't afford not to learn, and this book gets you started. Android is a software toolkit for mobile phones and tablets, created by Google. It's inside more than a billion devices, making Android the number one platform for application developers. Your own app could be running on all those devices! Getting started developing with Android is easy. You don't even need access to an Android phone, just a computer where you can install the Android SDK and the emulator that comes with it. Within minutes, Hello, Android gets you creating your first working application: Android's version of "Hello, World." From there, you'll build up a more substantial example: an Ultimate Tic-Tac-Toe game. By gradually adding features to the game, you'll learn about many aspects of Android programming, such as creating animated user interfaces, playing music and sound effects, building location-based services (including GPS and cell-tower triangulation), and accessing web services. You'll also learn how to publish your applications to the Google Play Store. This fourth edition of the bestselling Android classic has been revised for Android 4.1-4.3 (Jelly Bean), 4.4 (KitKat), and Android 5.0 (Lollipop). Topics have been streamlined and simplified based on reader feedback, and every page and example has been reviewed and updated for compatibility with the latest versions of Android. If you'd rather be coding than reading about coding, this book is for you.

Presenting invaluable advice from the world's most famous computer security expert, this intensely readable collection features some of the most insightful and informative coverage of the strengths and weaknesses of computer security and the price people pay -- figuratively and literally -- when security fails. Discussing the issues surrounding things such as airplanes, passports, voting machines, ID cards, cameras, passwords, Internet banking, sporting events, computers, and castles, this book is a must-read for anyone who values security at any level -- business, technical, or personal.

Build mobile apps efficiently with Kivy, the Python-powered graphical toolkit for creating natural user interfaces with elegant multitouch support. With this hands-on guide, you'll learn step-by-step how to build and deploy a complete Kivy app for iOS and Android devices. If you're just beginning to work with Python, but are reasonably familiar with its syntax, you're ready to go. Each chapter includes exercises, using examples that run on Python 3 and Python 2.7. Learn how Kivy simplifies mobile development with its cross-platform API and domain-specific Kv language, and why this free and open source toolkit is ideal for commercial products. Design custom widgets with the Kv language Delve into Kivy events, event handlers, and properties Dynamically change which Kivy widgets are displayed Understand and apply iterative development principles Create basic animations, using Canvas and graphics primitives Store local data with Kivy's powerful key value store Add basic gestures to switch between app views

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Improve your app's usability with Kivy's built-in widgets Deploy the app to your Android or iOS device, using Buildozer

A guide to the programming language describes how to build Python-enabled Web servers and applications, write mobile apps on the Android platform, develop sophisticated games, build GUI-based programs, and write Python scripts to automate tasks.

As part of the new Pocket Primer series, this book provides an overview of the major aspects and the source code to use Python 2. It covers the latest Python developments, built-in functions and custom classes, data visualization, graphics, databases, and more. It includes a companion disc with appendices, source code, and figures. This Pocket Primer is primarily for self-directed learners who want to learn Python 2 and it serves as a starting point for deeper exploration of Python programming. Features: +Includes a companion disc with appendices, source code, and figures +Contains material devoted to Raspberry Pi, Roomba, JSON, and Jython +Includes latest Python 2 developments, built-in functions and custom classes, data visualization, graphics, databases, and more +Provides a solid introduction to Python 2 via complete code samples On the CD-ROM: +Appendices (HTML5 and JavaScript Toolkits, Jython, SPA) +Source code samples +All images from the text (including 4-color) +Solutions to Odd-Numbered Exercises

Updated for both Python 3.4 and 2.7, this convenient pocket guide is the perfect on-the-job quick reference. You'll find concise, need-to-know information on Python types and statements, special method names, built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools. The handy index lets you pinpoint exactly what you need.

Written by Mark Lutz—widely recognized as the world's leading Python trainer—Python Pocket Reference is an ideal companion to O'Reilly's classic Python tutorials, Learning Python and Programming Python, also written by Mark. This fifth edition covers: Built-in object types, including numbers, lists, dictionaries, and more Statements and syntax for creating and processing objects Functions and modules for structuring and reusing code Python's object-oriented programming tools Built-in functions, exceptions, and attributes Special operator overloading methods Widely used standard library modules and extensions Command-line options and development tools Python idioms and hints The Python SQL Database API

Take a practical approach to becoming a leading-edge Android developer, learning by example while combining the many technologies needed to create a successful, up-to-date web app. Practical Android Projects introduces the Android software development kit and development tools of the trade, and then dives into building cool-looking and fun apps that put Android's amazing capabilities to work. Android is the powerful, full-featured, open source mobile platform that powers phones like Google Nexus, Motorola Droid, Samsung Galaxy S, and a variety of HTC phones and tablet computers. This book helps you quickly get Android projects up and running with the free and open source Eclipse, NetBeans, and IntelliJ IDEA IDEs. Then you build and extend mobile applications using the Android SDK, Java, Scripting Layer for Android (SL4A), and languages such as Python, Ruby, Javascript/HTML, Flex/AIR, and Lua.

Provides information on creating games for Android mobile devices, covering such topics as implementing the game loop, integrating user input, building virtual worlds with tile maps, and creating a scoring framework.

Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. *Android Recipes: A Problem-Solution Approach, Third Edition* offers more than 100 down-to-earth code recipes, and guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. It's updated to include the KitKat Android 4.4 SDK as well as earlier releases. Instead of abstract descriptions of complex concepts, in *Android Recipes*, you'll find live code examples. When you start a new project you can consider copying and pasting the code and configuration files from this book and then modifying them for your own customization needs. Crammed with insightful instruction and helpful examples, this third edition of *Android Recipes* is your guide to writing apps for one of today's hottest mobile platforms. It offers pragmatic advice that will help you get the job done quickly and well. This can save you a great deal of work over creating a project from scratch! What you'll learn

- Use external libraries to save time and effort
- Boost app performance by using the Android NDK and Renderscript
- Design apps for performance, responsiveness, and seamlessness
- Send data between devices and other external hardware
- Persist application data and share it between applications
- Capture and play back various device media items
- Communicate with web services
- Get the most out of your user interface
- Develop a unit conversion app in the context of the command-line/Android SDK and Eclipse/Android SDK environments

Who this book is for This book is a handy reference for all Android app developers.

Table of Contents

- Getting Started with Android
- User Interaction
- Graphics and Drawing
- Communications and Networking
- Interacting with Device Hardware and Media
- Persisting Data
- Interacting with the System
- Working with Android NDK and Renderscript

This book presents new communication and networking technologies, an area that has gained significant research attention from both academia and industry in recent years. It also discusses the development of more intelligent and efficient communication technologies, which are an essential part of current day-to-day life, and reports on recent innovations in technologies, architectures, and standards relating to these technologies. The book includes research that spans a wide range of communication and networking technologies, including wireless sensor networks, big data, Internet of Things, optical and telecommunication networks, artificial intelligence, cryptography, next-generation networks, cloud computing, and natural language processing. Moreover, it focuses on novel solutions in the context of communication and networking challenges, such as optimization algorithms, network interoperability, scalable network clustering, multicasting and fault-tolerant techniques, network authentication mechanisms, and predictive analytics.

Eclipse is the most adopted integrated development environment (IDE) for Java programmers. And, now, Eclipse seems to be the preferred IDE for Android apps developers. *Android Apps with Eclipse* provides a detailed overview of Eclipse,

including steps and the screenshots to help Android developers to quickly get up to speed on Eclipse and to streamline their day-to-day software development. This book includes the following: Overview of Eclipse fundamentals for both Java and C/C++ Development. Using Eclipse Android Development Toolkit (ADT) to develop, debug, and troubleshoot Android applications. Using Eclipse C/C++ Development Toolkit (CDT) in conjunction with Android Native Development Kit (NDK) to integrate, develop and troubleshoot native Android components through Eclipse.

Best-selling author Al Sweigart shows you how to easily build over 80 fun programs with minimal code and maximum creativity. If you've mastered basic Python syntax and you're ready to start writing programs, you'll find *The Big Book of Small Python Projects* both enlightening and fun. This collection of 81 Python projects will have you making digital art, games, animations, counting programs, and more right away. Once you see how the code works, you'll practice re-creating the programs and experiment by adding your own custom touches. These simple, text-based programs are 256 lines of code or less. And whether it's a vintage screensaver, a snail-racing game, a clickbait headline generator, or animated strands of DNA, each project is designed to be self-contained so you can easily share it online. You'll create:

- Hangman, Blackjack, and other games to play against your friends or the computer
- Simulations of a forest fire, a million dice rolls, and a Japanese abacus
- Animations like a virtual fish tank, a rotating cube, and a bouncing DVD logo screensaver
- A first-person 3D maze game
- Encryption programs that use ciphers like ROT13 and Vigenère to conceal text

If you're tired of standard step-by-step tutorials, you'll love the learn-by-doing approach of *The Big Book of Small Python Projects*. It's proof that good things come in small programs!

*Beginning Android Tablet Programming* starts off by showing how to get your system ready for Android tablet programming. You won't need any previous Android experience, because you'll learn all about the basic structure of an Android program and how the Android operating system works—and then you'll learn how to write your first Android tablet application from scratch! *Beginning Android Tablet Programming* then equips you to build a set of interesting and fully-working Android tablet applications. These projects will give you the inspiration and insights to build your own Android programs in the future. You'll be introduced to 2D programming, and you'll see what you can do with a touch screen interface and the Honeycomb SDK. Of course, 3D programming is even more alluring for many programmers. If that includes you, you'll learn about how Honeycomb has changed the game for Android graphics programming, and get your first taste of 3D programming on an Android tablet. Lights, camera, action! You'll learn along the way how Android Honeycomb gives you access, through your programming, to all those interesting sensors that tablet computers are equipped with today—beyond the touch screen itself. You'll learn, for example, how you to use a tablet GPS sensor to locate your car! You'll also discover how you can access files on your tablet—or on the web—through programming, and

then build on that insight to create your own file browser application. This Android project contains many useful coding techniques appropriate for many situations you might encounter in your future programming Android tablet applications; you'll be glad to have them under your belt. So do you want to write programs that can receive and send reminder messages via SMS? Do you want to write your first 2D or 3D game on Android? Perhaps you'd like to write an application that sorts out all your contacts for you! Beginning Android Tablet Programming introduces you to Android tablet programming, and shows how you can program your Android tablet from scratch to do what you want! Provides instruction on building Android apps, including solutions to working with web services, multitouch gestures, location awareness, and device features.

This book constitutes the refereed proceedings of the 27th IFIP TC 11 International Information Security Conference, SEC 2012, held in Heraklion, Crete, Greece, in June 2012. The 42 revised full papers presented together with 11 short papers were carefully reviewed and selected from 167 submissions. The papers are organized in topical sections on attacks and malicious code, security architectures, system security, access control, database security, privacy attitudes and properties, social networks and social engineering, applied cryptography, anonymity and trust, usable security, security and trust models, security economics, and authentication and delegation.

If you are a web programmer, you need to know modern PHP. This book presents with many new areas in which PHP plays a large role. If you want to write a mobile application using geo-location data, Pro PHP Programming will show you how. Additionally, if you need to make sure that you can write a multilingual indexing application using Sphinx, this book will help you avoid the pitfalls. Of course, Pro PHP Programming gives a thorough survey of PHP post-5.3. You'll begin by working through an informative survey and clear guide to object-oriented PHP. Then, you'll be set for the core of the book on modern PHP applications. Now, you'll be able to start with the chapter on PHP for mobile programming and move on to sampling social media applications. You'll also be guided through new PHP programming language features like closures and namespaces. Pro PHP Programming deals with filtering data from users and databases next, so you'll be well prepared for relational and NoSQL databases. Of course, you can also learn about data retrieval from other sources, like OCR libraries or websites. Then the question of how to format and present data arises, and in Pro PHP Programming, you'll find solutions via JSON, AJAX and XML.

Beginning Android 4 is an update to Beginning Android 3, originally written by Mark Murphy. It is your first step on the path to creating marketable apps for the burgeoning Android Market, Amazon's Android Appstore, and more. Google's Android operating-system has taken the industry by storm, going from its humble beginnings as a smartphone operating system to its current status as a platform for apps that run across a gamut of devices from phones to tablets to netbooks to televisions, and the list is sure to

grow. Smart developers are not sitting idly by in the stands, but are jumping into the game of creating innovative and salable applications for this fast-growing, mobile- and consumer-device platform. If you're not in the game yet, now is your chance! Beginning Android 4 is fresh with details on the latest iteration of the Android platform. Begin at the beginning by installing the tools and compiling a skeleton app. Move through creating layouts, employing widgets, taking user input, and giving back results. Soon you'll be creating innovative applications involving multi-touch, multi-tasking, location-based feature sets using GPS. You'll be drawing data live from the Internet using web services and delighting your customers with life-enhancing apps. Not since the PC era first began has there been this much opportunity for the common developer. What are you waiting for? Grab your copy of Beginning Android 4 and get started!

Explore MicroPython through a series of hands-on projects and learn to design and build your own embedded systems using the MicroPython Pyboard, ESP32, the STM32 IoT Discovery kit, and the OpenMV camera module. Key Features Delve into MicroPython Kernel and learn to make modifications that will enhance your embedded applications Design and implement drivers to interact with a variety of sensors and devices Build low-cost projects such as DIY automation and object detection with machine learning Book Description With the increasing complexity of embedded systems seen over the past few years, developers are looking for ways to manage them easily by solving problems without spending a lot of time on finding supported peripherals. MicroPython is an efficient and lean implementation of the Python 3 programming language, which is optimized to run on microcontrollers. MicroPython Projects will guide you in building and managing your embedded systems with ease. This book is a comprehensive project-based guide that will help you build a wide range of projects and give you the confidence to design complex projects spanning new areas of technology such as electronic applications, automation devices, and IoT applications. While building seven engaging projects, you'll learn how to enable devices to communicate with each other, access and control devices over a TCP/IP socket, and store and retrieve data. The complexity will increase progressively as you work on different projects, covering areas such as driver design, sensor interfacing, and MicroPython kernel customization. By the end of this MicroPython book, you'll be able to develop industry-standard embedded systems and keep up with the evolution of the Internet of Things. What you will learn Develop embedded systems using MicroPython Build a custom debugging tool to visualize sensor data in real-time Detect objects using machine learning and MicroPython Discover how to minimize project costs and reduce development time Get to grips with gesture operations and parsing gesture data Learn how to customize and deploy the MicroPython kernel Explore the techniques for scheduling application tasks and activities Who this book is for If you are an embedded developer or hobbyist looking to build interesting projects using MicroPython, this book is for you. A basic understanding of electronics and Python is required while some MicroPython experience will be helpful.

Despite using them every day, most software engineers know little about how programming languages are designed and implemented. For many, their only experience with that corner of computer science was a terrifying "compilers" class that they suffered through in undergrad and tried to blot from their memory as soon as they had scribbled their last NFA to DFA conversion

on the final exam. That fearsome reputation belies a field that is rich with useful techniques and not so difficult as some of its practitioners might have you believe. A better understanding of how programming languages are built will make you a stronger software engineer and teach you concepts and data structures you'll use the rest of your coding days. You might even have fun. This book teaches you everything you need to know to implement a full-featured, efficient scripting language. You'll learn both high-level concepts around parsing and semantics and gritty details like bytecode representation and garbage collection. Your brain will light up with new ideas, and your hands will get dirty and calloused. Starting from `main()`, you will build a language that features rich syntax, dynamic typing, garbage collection, lexical scope, first-class functions, closures, classes, and inheritance. All packed into a few thousand lines of clean, fast code that you thoroughly understand because you wrote each one yourself.

Develop Android apps with Kotlin to create more elegant programs than the Java equivalent. This book covers the various aspects of a modern Android app that professionals are expected to encounter. There are chapters dealing with all the important aspects of the Android platform, including GUI design, file- and data-handling, coping with phone calls, multimedia apps, interaction with location and mapping services, monetizing apps, and much more. Pro Android with Kotlin is an invaluable source for developers wanting to build real-world state-of-the-art apps for modern Android devices. What You Will Learn Integrate activities, such as intents, services, toasts and more, into your Android apps Build UIs in Android using layouts, widgets, lists, menus, and action bars Deal with data in your Android apps using data persistence and cloud access Design for different Android devices Create multimedia apps in Android Secure, deploy, and monetize your Android apps Who This Book Is For Professional Android app developers.

This important work offers the most comprehensive and up-to-date account of the Orthodox Church available, providing a detailed account of its historical development, as well as exploring Orthodox theology and culture Written by one of the leading Orthodox historians and theologians in the English-speaking world Offers an in-depth engagement with the issues surrounding Orthodoxy's relationship to the modern world, including political, cultural and ethical debates Considers the belief tradition, spirituality, liturgical diversity, and Biblical heritage of the Eastern Churches; their endurance of oppressions and totalitarianisms; and their contemporary need to rediscover their voice and confidence in a new world-order Recipient of a CHOICE Outstanding Academic Title for 2009 award

“Brian Overland makes programming simple. . . . To my amazement, his books explain complicated code clearly enough for anyone to understand.” —Art Sedighi, PhD Tapping into the full power of Python doesn't have to be difficult. Supercharged Python is written for people who've learned the fundamentals of the language but want to take their skills to the next level. After a quick review of Python, the book covers: advanced list and string techniques; all the ways to handle text and binary files; financial applications; advanced techniques for writing classes; generators and decorators; and how to master packages such as Numpy (Numeric Python) to supercharge your applications! Use profilers and “magic methods” to code like a pro Harness the power of regular expressions to process text quickly with a single statement Take advantage of 22 coding shortcuts, along with performance

tips, to save time and optimize your code Create really useful classes and objects, for games, simulations, money, mathematics, and more Use multiple modules to build powerful apps while avoiding the “gotchas” Import packages to dramatically speed up statistical operations—by as much as 100 times! Refer to the five-part language reference to look up fine points of the language Supercharged Python demonstrates techniques that allow you to write faster and more powerful code, whether you’re manipulating large amounts of data or building sophisticated applications. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

The complete, start-to-finish guide to Android development -- from concept to market -- completely updated for the latest Android SDK! • •At least one market research firm has predicted that by 2012 there will be more Android phones than iPhones. •Covers application design, development, debugging, packaging, distribution, and much more. •Includes invaluable real-world tips from experienced mobile developers. •This book covers multiple Android SDK versions, which is how developers must work with Android. Android is rapidly gaining traction as an exciting alternative to Apple's iPhone platform, and thousands of developers are eagerly seeking the information they need to begin creating Android applications. Drawing on their experience in mobile and wireless software development, the authors walk through the entire process of developing successful Android applications, from concept through coding, testing through distribution. The only book developers will need, Android Wireless Application Development 2/e is the comprehensive resource for developers who are new to Android - or to wireless development in general. Conder and Darcey cover: • •Mastering the Android development environment. •Understanding the entire Android application lifecycle. •Building effective user interfaces. •Using Android's APIs for networking, location-based services, data, storage, multimedia, telephony, graphics, and more •Working with Android's optional hardware-specific APIs •Designing more effective applications using Notifications and Services •Developing and testing bulletproof Android applications The book also provides valuable appendices on Android's Emulator, DDMS, Debug Bridge, and SQLite database, as well as a convenient glossary that demystifies the terminology of mobile development.

Android development is hot, and many programmers are interested in joining the fun. However, because this technology is based on Java, you should first obtain a solid grasp of the Java language and its foundational APIs to improve your chances of succeeding as an Android app developer. After all, you will be busy learning the architecture of an Android app, the various Android-specific APIs, and Android-specific tools. If you do not already know Java fundamentals, you will probably end up with a massive headache from also having to quickly cram those fundamentals into your knowledge base. Learn Java for Android Development, Second Edition teaches programmers of any skill level the essential Java language and foundational Java API skills that must be learned to improve the programmer’s chances of succeeding as an Android app developer. Each of the book’s 14 chapters provides an exercise section that gives you the opportunity to reinforce your understanding of the chapter’s material. Answers to the book’s more than 500 exercises are provided in an appendix. A second appendix provides a significant game-oriented Java application, which you can convert into an Android app. Once you complete this book, you should be ready to dive

into beginning Android app development. Maybe, start that journey with Apress' Beginning Android.

Want to learn the Python language without slogging your way through how-to manuals? With Head First Python, you'll quickly grasp Python's fundamentals, working with the built-in data structures and functions. Then you'll move on to building your very own webapp, exploring database management, exception handling, and data wrangling. If you're intrigued by what you can do with context managers, decorators, comprehensions, and generators, it's all here. This second edition is a complete learning experience that will help you become a bonafide Python programmer in no time. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Python uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works.

Provides instruction on creating Android programs and scripts using tools that can run on the Android platform itself.

Looking for a reliable way to learn how to program on your own, without being overwhelmed by confusing concepts? Head First Programming introduces the core concepts of writing computer programs -- variables, decisions, loops, functions, and objects -- which apply regardless of the programming language. This book offers concrete examples and exercises in the dynamic and versatile Python language to demonstrate and reinforce these concepts. Learn the basic tools to start writing the programs that interest you, and get a better understanding of what software can (and cannot) do. When you're finished, you'll have the necessary foundation to learn any programming language or tackle any software project you choose. With a focus on programming concepts, this book teaches you how to: Understand the core features of all programming languages, including: variables, statements, decisions, loops, expressions, and operators Reuse code with functions Use library code to save time and effort Select the best data structure to manage complex data Write programs that talk to the Web Share your data with other programs Write programs that test themselves and help you avoid embarrassing coding errors We think your time is too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Programming uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep.

There are many Android programming guides that give you the basics. This book goes beyond simple apps into many areas of Android development that you simply will not find in competing books. Whether you want to add home screen app widgets to your arsenal, or create more complex maps, integrate multimedia features like the camera, integrate tightly with other applications, or integrate scripting languages, this book has you covered. Moreover, this book has over 50 pages of Honeycomb-specific material, from dynamic fragments, to integrating navigation into the action bar, to creating list-based app widgets. It also has a chapter on using NFC, the wireless technology behind Google Wallet and related services. This book is one in CommonsWare's growing series of Android related titles, including "The Busy Coder's Guide to Android Development," "Android Programming Tutorials," and the upcoming "Tuning Android Applications." Table of Contents WebView, Inside and Out Crafting Your Own Views More Fun

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With ListViews Creating Drawables Home Screen App Widgets Interactive Maps Creating Custom Dialogs and Preferences Advanced Fragments and the Action Bar Animating Widgets Using the Camera Playing Media Handling System Events Advanced Service Patterns Using System Settings and Services Content Provider Theory Content Provider Implementation Patterns The Contacts ContentProvider Searching with SearchManager Introspection and Integration Tapjacking Working with SMS More on the Manifest Device Configuration Push Notifications with C2DM NFC The Role of Scripting Languages The Scripting Layer for Android JVM Scripting Languages Reusable Components Testing Production

Have you ever wondered what dark matter is or why galaxies collide? Or why the Moon is gradually drifting away from Earth? Space is really, really big, as Douglas Adams once pointed out, and there is no better guide to it than Fred Watson, astronomer to the stars. Fred Watson has taken the many, many questions that have been asked by listeners of his popular, long-running radio shows, and answered them in this collection. Questions he answers include How can you identify the constellations? Does the Earth wobble? Could you dump nuclear waste into the Sun? What makes pl.

Get started in creating marketable apps for the burgeoning Android market. Begin your journey by learning the essentials of programming for phones and tables that are built around Google's wildly-successful Android platform. Beginning Android, Fifth Edition is fresh with details on the latest iteration of the Android 5 and earlier versions. Google's Android operating-system has taken the industry by storm, going from its humble beginnings as a smartphone operating system to its current status as a platform for apps that run across a gamut of devices from phones to tablets to netbooks to televisions, and the list is sure to grow. Smart developers are not sitting idly by in the stands, but are jumping into the game of creating innovative and salable applications for this fast-growing, mobile- and consumer-device platform. If you're not in the game yet, now is your chance! Begin at the beginning by installing the tools and compiling a skeleton app. Move through creating layouts, employing widgets, taking user input, and giving back results. Soon you'll be creating innovative applications involving multi-touch, multi-tasking, and more! You'll be drawing data live from the Internet using web services and delighting your customers with life-enhancing apps. Not since the PC era first began has there been this much opportunity for the common developer. What are you waiting for? Grab your copy of Beginning Android and get started!

Design, build and simulate complex robots using Robot Operating System and master its out-of-the-box functionalities About This Book Develop complex robotic applications using ROS for interfacing robot manipulators and mobile robots with the help of high end robotic sensors Gain insights into autonomous navigation in mobile robot and motion planning in robot manipulators Discover the best practices and troubleshooting solutions everyone needs when working on ROS Who This Book Is For If you are a robotics enthusiast or researcher who wants to learn more about building robot applications using ROS, this book is for you. In order to learn from this book, you should have a basic knowledge of ROS, GNU/Linux, and C++ programming concepts. The book will also be good for programmers who want to explore the advanced features of ROS. What You Will Learn Create a robot model of a Seven-DOF robotic arm and a differential wheeled mobile robot Work with motion planning of a Seven-DOF arm using MoveIt!

Implement autonomous navigation in differential drive robots using SLAM and AMCL packages in ROS Dig deep into the ROS Pluginlib, ROS nodelets, and Gazebo plugins Interface I/O boards such as Arduino, Robot sensors, and High end actuators with ROS Simulation and motion planning of ABB and Universal arm using ROS Industrial Explore the ROS framework using its latest version In Detail The area of robotics is gaining huge momentum among corporate people, researchers, hobbyists, and students. The major challenge in robotics is its controlling software. The Robot Operating System (ROS) is a modular software platform to develop generic robotic applications. This book discusses the advanced concepts in robotics and how to program using ROS. It starts with deep overview of the ROS framework, which will give you a clear idea of how ROS really works. During the course of the book, you will learn how to build models of complex robots, and simulate and interface the robot using the ROS MoveIt motion planning library and ROS navigation stacks. After discussing robot manipulation and navigation in robots, you will get to grips with the interfacing I/O boards, sensors, and actuators of ROS. One of the essential ingredients of robots are vision sensors, and an entire chapter is dedicated to the vision sensor, its interfacing in ROS, and its programming. You will discuss the hardware interfacing and simulation of complex robot to ROS and ROS Industrial (Package used for interfacing industrial robots). Finally, you will get to know the best practices to follow when programming using ROS. Style and approach This is a simplified guide to help you learn and master advanced topics in ROS using hands-on examples.

Design, simulate, and program interactive robots Key Features Design, simulate, build, and program an interactive autonomous mobile robot Leverage the power of ROS, Gazebo, and Python to enhance your robotic skills A hands-on guide to creating an autonomous mobile robot with the help of ROS and Python Book Description Robot Operating System (ROS) is one of the most popular robotics software frameworks in research and industry. It has various features for implementing different capabilities in a robot without implementing them from scratch. This book starts by showing you the fundamentals of ROS so you understand the basics of differential robots. Then, you'll learn about robot modeling and how to design and simulate it using ROS. Moving on, we'll design robot hardware and interfacing actuators. Then, you'll learn to configure and program depth sensors and LIDARs using ROS. Finally, you'll create a GUI for your robot using the Qt framework. By the end of this tutorial, you'll have a clear idea of how to integrate and assemble everything into a robot and how to bundle the software package. What you will learn Design a differential robot from scratch Model a differential robot using ROS and URDF Simulate a differential robot using ROS and Gazebo Design robot hardware electronics Interface robot actuators with embedded boards Explore the interfacing of different 3D depth cameras in ROS Implement autonomous navigation in ChefBot Create a GUI for robot control Who this book is for This book is for those who are conducting research in mobile robotics and autonomous navigation. As well as the robotics research domain, this book is also for the robot hobbyist community. You're expected to have a basic understanding of Linux commands and Python. Presents step-by-step instructions for a variety of home automation projects using Arduino, Android, and a computer, including opening locked doors with a smartphone, remotely monitoring home security, and opening and closing curtains.

Pro Android Python with SL4A is for programmers and hobbyists who want to write apps for Android devices without having to

learn Java first. Paul Ferrill leads you from installing the Scripting Layer for Android (SL4A) to writing small scripts, to more complicated and interesting projects, and finally to uploading and packaging your programs to an Android device. Android runs scripts in many scripting languages, but Python, Lua, and Beanshell are particularly popular. Most programmers know more than one programming language, so that they have the best tool for whatever task they want to accomplish. Pro Android Python with SL4A explores the world of Android scripting by introducing you to the most important open-source programming languages that are available on Android-based hardware. Pro Android Python with SL4A starts by exploring the Android software development kit and then shows you how to set up an Eclipse-based Android development environment. You then approach the world of Android programming by using Beanshell, which runs on the Dalvik, and learning how to write small programs to administer an Android device. Next, discover how Lua, a lightweight language perfectly suited for scripting on smaller devices, can work with Android. Lua can be used for small but important tasks, like SMS encryption and synchronizing photos with flickr. Last, but certainly not least, you will discover the world of Python scripting for SL4A, and the power contained within the full range of Python modules that can combine with the Android SDK. You'll learn to write small location-aware apps to get you started, but by the end of this book, you'll find yourself writing fully GUI-fied applications running on the Android desktop! Pro Android Python with SL4A is rounded out with a chapter on distributing and packaging scripts, a skill that you'll find very useful as you reach out to a wider audience with your programs.

This book constitutes the post-conference proceedings of the 14th International Conference on Information Security and Cryptology, Inscrypt 2018, held in Fuzhou, China, in December 2018. The 31 full papers presented together with 5 short papers and 1 invited paper were carefully reviewed and selected from 93 submissions. The papers cover topics in the field of blockchain and crypto currency; lattice-based cryptology; symmetric cryptology; applied cryptography; information security; assymetric encryption; and foundations.

Portable, powerful, and a breeze to use, Python is ideal for both standalone programs and scripting applications. With this hands-on book, you can master the fundamentals of the core Python language quickly and efficiently, whether you're new to programming or just new to Python. Once you finish, you will know enough about the language to use it in any application domain you choose. Learning Python is based on material from author Mark Lutz's popular training courses, which he's taught over the past decade. Each chapter is a self-contained lesson that helps you thoroughly understand a key component of Python before you continue. Along with plenty of annotated examples, illustrations, and chapter summaries, every chapter also contains Brain Builder, a unique section with practical exercises and review quizzes that let you practice new skills and test your understanding as you go. This book covers: Types and Operations -- Python's major built-in object types in depth: numbers, lists, dictionaries, and more Statements and Syntax -- the code you type to create and process objects in Python, along with Python's general syntax model Functions -- Python's basic procedural tool for structuring and reusing code Modules -- packages of statements, functions, and other tools organized into larger components Classes and OOP -- Python's optional object-oriented programming tool for

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structuring code for customization and reuse Exceptions and Tools -- exception handling model and statements, plus a look at development tools for writing larger programs Learning Python gives you a deep and complete understanding of the language that will help you comprehend any application-level examples of Python that you later encounter. If you're ready to discover what Google and YouTube see in Python, this book is the best way to get started.

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