
Machine Language Programming Cookbook

The Bulgarian C# Book

SQL Cookbook

C++ System Programming Cookbook

Don Lancaster's Micro Cookbook: Machine language programming

Raspberry Pi Assembly Language Programming

Become an expert C++ programmer by mastering concepts like templates, concurrency, and type deduction

Kotlin Programming Cookbook

LEARN FROM SCRATCH MACHINE LEARNING WITH PYTHON GUI

Rust Programming Cookbook

Over 40 Recipes Exploring Data Structures, Pointers, Interprocess Communication, and Database in C

Qt5 C++ GUI Programming Cookbook

OpenCV 4 Computer Vision Application Programming Cookbook

A Guide for BASIC Programmers

IOS 7 Programming Cookbook

Python Network Programming Cookbook

Modern C++ Programming Cookbook

Over 50 Recipes to Master this Library of Programming Functions for Real-time Computer Vision

Clojure Programming Cookbook

Learning Assembly Language

Recipes for Cryptography, Authentication, Input Validation & More

Python Parallel Programming Cookbook

Explore the Latest Features of Rust 2018 for Building Fast and Secure Apps

C Programming Cookbook

A Practical Programming Guide

Advanced C++ Programming Cookbook

Explore the latest features of Rust 2018 for building fast and secure apps

Build fast and secure software for Linux/Unix systems with the help of practical examples

Don Lancaster's Micro Cookbook: Fundamentals

Serverless Programming Cookbook

Practical solutions to building serverless applications using Java and AWS

METEOROLOGICAL DATA ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON

How to Quickly Learn Structured Query Language Programming, Server Administration, Computer and Database Management Step-by-Step

OpenCV 2 Computer Vision Application Programming Cookbook

Practical recipes to help you build robust and secure embedded applications on Linux

A Complete Crash Course and Tutorial for Everyone Including Dummies

Computer Organization and Assembly Language Programming

The Chaos Cookbook

Robot Builder's Cookbook

Classification and Prediction Projects with Machine Learning and Deep Learning

Fundamentals of Computer Programming with C#

*Machine Language Programming
Cookbook*

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guest

KAITLIN DECKER

The Bulgarian C# Book Packt Publishing Ltd

Introduces the statements and commands of assembly language, explains how it differs from BASIC, and discusses conversions, loops, subroutines, strings, and Boolean logic

SQL Cookbook Faber Publishing

A recipe-based guide to refining your C++ programming skills with the help of coding best practices, advanced programming concepts, and the latest features of C++17 and C++20 Key Features Learn how to develop and design your own libraries Find

solutions to your app development problems and implement them in a highly reusable manner, following library development best practices Explore advanced C++ features such as containers, coroutines, and modules Book Description If you think you've mastered C++ and know everything it takes to write robust applications, you'll be in for a surprise. With this book, you'll gain comprehensive insights into C++, covering exclusive tips and interesting techniques to enhance your app development process. You'll kick off with the basic principles of library design and development, which will help you understand how to write reusable and maintainable code. You'll then discover the importance of exception safety, and how you can avoid unexpected errors or bugs in your code. The book will take you

through the modern elements of C++, such as move semantics, type deductions, and coroutines. As you advance, you'll delve into template programming - the standard tool for most library developers looking to achieve high code reusability. You'll explore the STL and learn how to avoid common pitfalls while implementing templates. Later, you'll learn about the problems of multithreaded programming such as data races, deadlocks, and thread starvation. You'll also learn high-performance programming by using benchmarking tools and libraries. Finally, you'll discover advanced techniques for debugging and testing to ensure code reliability. By the end of this book, you'll have become an expert at C++ programming and will have gained the skills to solve complex development problems with ease. What you will learn

Solve common C++ development problems by implementing solutions in a more generic and reusable way

Achieve different levels of exception safety guarantees by introducing precise declarations

Write library-quality code that meets professional standards

Practice writing reliable, performant code that exposes consistent behavior in programs

Understand why you need to implement design patterns and how it's done

Work with complex examples to understand various aspects of good library design

Who this book is for This book is for intermediate and expert-level C++ developers who are looking to explore the lesser known functionalities of the language to improve the efficiency of their code and the way they develop applications. Basic knowledge of object-oriented programming concepts and the Standard Template Library (STL) is assumed.

C++ System Programming Cookbook Packt Pub Limited

Over 60 recipes that harness the power of the Raspberry Pi together with Python programming and create enthralling and captivating projects

About This Book

Install your first operating system, share files over the network, and run programs remotely

Construct robots and interface with your own circuits and purpose built add-ons, as well as adapt off-the-shelf household devices using this pragmatic guide

Packed with clear, step-by-step recipes to walk you through the capabilities of Raspberry Pi

Who This Book Is For

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.

What You Will Learn

Get the Raspberry Pi set up and running for the first time

Remotely connect to the Raspberry Pi and use your PC/laptop instead of a separate screen/keyboard

Get to grips with text, files and creating quick menus using Python

Develop desktop applications; handle images and process files with ease

Make use of graphics and user control to develop your own exciting games

Use the Raspberry Pi's powerful GPU to create 3D worlds

Take control of the real world and interface with physical hardware, combining hardware and software for your own needs

Measure and control processes, respond to real events and monitor through the Internet

Learn about the Raspberry Pi hardware inputs/outputs, starting with the basics and beyond

Expand the capabilities of the Raspberry Pi with hardware expansion / add-on modules (use analogue inputs,

drive servos and motors, and use SPI/I2C) Create your own Pi-Rover or Pi-Hexpod driven by the Raspberry Pi Make use of existing hardware by modifying and interfacing with it using the Raspberry Pi In Detail Raspberry Pi cookbook for Python Programmers is a practical guide for getting the most out of this little computer. This book 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 to 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-Hexpod 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. Style and approach Written in a cookbook style, the book contains a series of recipes on various topics, ranging from simple to complex. It is an easy-to-follow and step-by-step guide with examples of various feature integration suitable for any search

application.

Don Lancaster's Micro Cookbook: Machine language programming BALIGE PUBLISHING

Covers addressing concepts, working registers, system buses, hex dumps, machine and assembly language programming, flowcharting, microcomputer circuits, and problem-solving approaches

Raspberry Pi Assembly Language Programming Packt Publishing Ltd

Recipes to help you build computer vision applications that make the most of the popular C++ library OpenCV 3 About This Book Written to the latest, gold-standard specification of OpenCV 3 Master OpenCV, the open source library of the computer vision community Master fundamental concepts in computer vision and image processing Learn about the important classes and functions of OpenCV with complete working examples applied to real images Who This Book Is For OpenCV 3 Computer Vision Application Programming Cookbook Third Edition is appropriate for novice C++ programmers who want to learn how to use the OpenCV library to build computer vision applications. It is also suitable for professional software developers who wish to be introduced to the concepts of computer vision programming. It can also be used as a companion book for university-level computer vision courses. It constitutes an excellent reference for graduate students and researchers in image processing and computer vision. What You Will Learn Install and create a program using the OpenCV library Process an image by manipulating its pixels Analyze an image using histograms Segment images into homogenous regions and extract

meaningful objects Apply image filters to enhance image content Exploit the image geometry in order to relay different views of a pictured scene Calibrate the camera from different image observations Detect people and objects in images using machine learning techniques Reconstruct a 3D scene from images In Detail Making your applications see has never been easier with OpenCV. With it, you can teach your robot how to follow your cat, write a program to correctly identify the members of One Direction, or even help you find the right colors for your redecoration. OpenCV 3 Computer Vision Application Programming Cookbook Third Edition provides a complete introduction to the OpenCV library and explains how to build your first computer vision program. You will be presented with a variety of computer vision algorithms and exposed to important concepts in image and video analysis that will enable you to build your own computer vision applications. This book helps you to get started with the library, and shows you how to install and deploy the OpenCV library to write effective computer vision applications following good programming practices. You will learn how to read and write images and manipulate their pixels. Different techniques for image enhancement and shape analysis will be presented. You will learn how to detect specific image features such as lines, circles or corners. You will be introduced to the concepts of mathematical morphology and image filtering. The most recent methods for image matching and object recognition are described, and you'll discover how to process video from files or cameras, as well as how to detect and track moving objects. Techniques to achieve camera calibration and perform multiple-view analysis will also be explained. Finally, you'll also get

acquainted with recent approaches in machine learning and object classification. Style and approach This book will arm you with the basics you need to start writing world-aware applications right from a pixel level all the way through to processing video sequences.

Become an expert C++ programmer by mastering concepts like templates, concurrency, and type deduction Independently Published

Explore various constraints and challenges that embedded developers encounter in their daily tasks and learn how to build effective programs using the latest standards of C++ Key Features Get hands-on experience in developing a sample application for an embedded Linux-based system Explore advanced topics such as concurrency, real-time operating system (RTOS), and C++ utilities Learn how to test and debug your embedded applications using logs and profiling tools Book Description Developing applications for embedded systems may seem like a daunting task as developers face challenges related to limited memory, high power consumption, and maintaining real-time responses. This book is a collection of practical examples to explain how to develop applications for embedded boards and overcome the challenges that you may encounter while developing. The book will start with an introduction to embedded systems and how to set up the development environment. By teaching you to build your first embedded application, the book will help you progress from the basics to more complex concepts, such as debugging, logging, and profiling. Moving ahead, you will learn how to use specialized memory and custom allocators. From here, you will delve into

recipes that will teach you how to work with the C++ memory model, atomic variables, and synchronization. The book will then take you through recipes on inter-process communication, data serialization, and timers. Finally, you will cover topics such as error handling and guidelines for real-time systems and safety-critical systems. By the end of this book, you will have become proficient in building robust and secure embedded applications with C++. What you will learn

- Get to grips with the fundamentals of an embedded system
- Understand how to optimize code for the targeted hardware platforms
- Explore cross-compilation, build types, and remote debugging
- Discover the importance of logging for debugging and root cause analysis of failures
- Uncover concepts such as interrupt service routine, memory model, and ring buffer
- Recognize the need for custom memory management in embedded systems
- Delve into static code analyzers and tools to improve code quality

Who this book is for This book is for developers, electronic hardware professionals, and software and system-on-chip engineers who want to build effective embedded programs in C++. Familiarity with the C++ programming language is expected, but no previous knowledge of embedded systems is required.

[Kotlin Programming Cookbook](#) Packt Publishing Ltd

Build, secure, and deploy real-world serverless applications in AWS and peek into the serverless cloud offerings from Azure, Google Cloud, and IBM Cloud

Key Features

- Build serverless applications with AWS Lambda, AWS CloudFormation and AWS CloudWatch
- Perform data analytics and natural language processing(NLP)on the AWS serverless platform
- Explore various design patterns and best practices involved in serverless

computing

Book Description

Managing physical servers will be a thing of the past once you're able to harness the power of serverless computing. If you're already prepped with the basics of serverless computing, *Serverless Programming Cookbook* will help you take the next step ahead. This recipe-based guide provides solutions to problems you might face while building serverless applications. You'll begin by setting up Amazon Web Services (AWS), the primary cloud provider used for most recipes. The next set of recipes will cover various components to build a Serverless application including REST APIs, database, user management, authentication, web hosting, domain registration, DNS management, CDN, messaging, notifications and monitoring. The book also introduces you to the latest technology trends such as Data Streams, Machine Learning and NLP. You will also see patterns and practices for using various services in a real world application. Finally, to broaden your understanding of Serverless computing, you'll also cover getting started guides for other cloud providers such as Azure, Google Cloud Platform and IBM cloud. By the end of this book, you'll have acquired the skills you need to build serverless applications efficiently using various cloud offerings. What you will learn

- Serverless computing in AWS and explore services with other clouds
- Develop full-stack apps with API Gateway, Cognito, Lambda and DynamoDB
- Web hosting with S3, CloudFront, Route 53 and AWS Certificate Manager
- SQS and SNS for effective communication between microservices
- Monitoring and troubleshooting with CloudWatch logs and metrics
- Explore Kinesis Streams, Amazon ML models and Alexa Skills Kit

Who this book is for For developers looking for practical solutions to common problems while building a serverless application, this

book provides helpful recipes. To get started with this intermediate-level book, knowledge of basic programming is a must.

LEARN FROM SCRATCH MACHINE LEARNING WITH PYTHON GUI
"O'Reilly Media, Inc."

Master efficient parallel programming to build powerful applications using Python About This Book Design and implement efficient parallel software Master new programming techniques to address and solve complex programming problems Explore the world of parallel programming with this book, which is a go-to resource for different kinds of parallel computing tasks in Python, using examples and topics covered in great depth Who This Book Is For Python Parallel Programming Cookbook is intended for software developers who are well versed with Python and want to use parallel programming techniques to write powerful and efficient code. This book will help you master the basics and the advanced of parallel computing. What You Will Learn Synchronize multiple threads and processes to manage parallel tasks Implement message passing communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational tasks Write efficient programs by adopting the event-driven programming model Explore the cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements In Detail Parallel programming techniques are required for a developer to get the best use of all the computational resources available today and to build efficient software systems. From multi-core to GPU systems up to the

distributed architectures, the high computation of programs throughout requires the use of programming tools and software libraries. Because of this, it is becoming increasingly important to know what the parallel programming techniques are. Python is commonly used as even non-experts can easily deal with its concepts. This book will teach you parallel programming techniques using examples in Python and will help you explore the many ways in which you can write code that allows more than one process to happen at once. Starting with introducing you to the world of parallel computing, it moves on to cover the fundamentals in Python. This is followed by exploring the thread-based parallelism model using the Python threading module by synchronizing threads and using locks, mutex, semaphores queues, GIL, and the thread pool. Next you will be taught about process-based parallelism where you will synchronize processes using message passing along with learning about the performance of MPI Python Modules. You will then go on to learn the asynchronous parallel programming model using the Python asyncio module along with handling exceptions. Moving on, you will discover distributed computing with Python, and learn how to install a broker, use Celery Python Module, and create a worker. You will also understand the StarCluster framework, Pycsp, Scoop, and Disco modules in Python. Further on, you will learn GPU programming with Python using the PyCUDA module along with evaluating performance limitations. Next you will get acquainted with the cloud computing concepts in Python, using Google App Engine (GAE), and building your first application with GAE. Lastly, you will learn about grid computing concepts in Python and using PyGlobus toolkit, GFTP and GASS COPY to

transfer files, and service monitoring in PyGlobus. Style and approach A step-by-step guide to parallel programming using Python, with recipes accompanied by one or more programming examples. It is a practically oriented book and has all the necessary underlying parallel computing concepts.

Rust Programming Cookbook McGraw Hill Professional
A recipe-based guide to programming your Raspberry Pi 3 using Python Key Features Leverage the power of Raspberry Pi 3 using Python programming Create 3D games, build neural network modules, and interface with your own circuits Packed with clear, step-by-step recipes to walk you through the capabilities of Raspberry Pi Book Description Raspberry Pi 3 Cookbook for Python Programmers - Third Edition begins by guiding you through setting up Raspberry Pi 3, performing tasks using Python 3.6, and introducing the first steps to interface with electronics. As you work through each chapter, you will build your skills and apply them as you progress. You will learn how to build text classifiers, predict sentiments in words, develop applications using the popular Tkinter library, and create games by controlling graphics on your screen. You will harness the power of a built in graphics processor using Pi3D to generate your own high-quality 3D graphics and environments. You will understand how to connect Raspberry Pi's hardware pins directly to control electronics, from switching on LEDs and responding to push buttons to driving motors and servos. Get to grips with monitoring sensors to gather real-life data, using it to control other devices, and viewing the results over the internet. You will apply what you have learned by creating your own Pi-Rover or Pi-Hexipod robots. You will also learn about sentiment analysis, face

recognition techniques, and building neural network modules for optical character recognition. Finally, you will learn to build movie recommendations system on Raspberry Pi 3. What you will learn Learn to set up and run Raspberry Pi 3 Build text classifiers and perform automation using Python Predict sentiments in words and create games and graphics Detect edges and contours in images Build human face detection and recognition system Use Python to drive hardware Sense and display real-world data Build a neural network module for optical character recognition Build movie recommendations system Who this book is for This book is for anyone who wants to master the skills of Python programming using Raspberry Pi 3. Prior knowledge of Python will be an added advantage.

Over 40 Recipes Exploring Data Structures, Pointers, Interprocess Communication, and Database in C Packt Publishing Ltd

Don Lancaster's Micro Cookbook: Machine language programming OpenCV 2 Computer Vision Application Programming Cookbook Over 50 Recipes to Master this Library of Programming Functions for Real-time Computer Vision Packt Pub Limited

Qt5 C++ GUI Programming Cookbook Packt Publishing Ltd
Owen Bishop introduces, through hands-on project work, the mechanics, electronics and programming involved in practical robot design-and-build. The use of the PIC microcontroller throughout provides a painless introduction to programming whilst harnessing the power of a highly popular microcontroller used by students and design engineers worldwide. This is a book for first-time robot builders, advanced builders wanting to know more about programming robots and students in Further and

Higher Education tackling microcontroller-based practical work. They will all find this book a unique and exciting source of projects, ideas and techniques, to be combined into a wide range of fascinating robots. · Full step-by-step instructions for 5 complete self-build robots · Introduces key techniques in electronics, programming and construction - for robust robots that work first time · Illustrations, close-up photographs and a lively, readable text make this a fun and informative guide for novice and experienced robot builders

OpenCV 4 Computer Vision Application Programming Cookbook
"O'Reilly Media, Inc."

This is a cookbook that shows results obtained on real images with detailed explanations and the relevant screenshots. The recipes contain code accompanied with suitable explanations that will facilitate your learning. If you are a novice C++ programmer who wants to learn how to use the OpenCV library to build computer vision applications, then this cookbook is appropriate for you. It is also suitable for professional software developers wishing to be introduced to the concepts of computer vision programming. It can be used as a companion book in university-level computer vision courses. It constitutes an excellent reference for graduate students and researchers in image processing and computer vision. The book provides a good combination of basic to advanced recipes. Basic knowledge of C++ is required.

A Guide for BASIC Programmers Packt Publishing Ltd
Quick fixes to your common C# programming problems, with a focus on C# 6.0 About This Book Unique recipes for C#, that places it in its real-world context. You will be able to get yourself

out of any coding-corner you've backed yourself into. All code samples available through GitHub to bring C#. In line with modern development workflows, written to the latest specification of C# 6.0. Who This Book Is For The book is aimed at developers who have basic familiarity with C# programming and will know the VS 2015 environment. What You Will Learn Write better and less code to achieve the same result as in previous versions of C#. Generate tests from the Code Contracts for mission critical methods. Integrate code in Visual Studio with GitHub. Create a web application in Azure. Design and build a microservice architecture Demystify the Rx library using Reactive extensions Write high performing codes in C# and understanding multi-threading. Security and Debugging. Implement Code Contracts on code in Visual Studio. In Detail During your application development workflow, there is always a moment when you need to get out of a tight spot. Through a recipe-based approach, this book will help you overcome common programming problems and get your applications ready to face the modern world. We start with C# 6, giving you hands-on experience with the new language features. Next, we work through the tasks that you perform on a daily basis such as working with strings, generics, and lots more. Gradually, we move on to more advanced topics such as the concept of object-oriented programming, asynchronous programming, reactive extensions, and code contracts. You will learn responsive high performance programming in C# and how to create applications with Azure. Next, we will review the choices available when choosing a source control solution. At the end of the book, we will show you how to create secure and robust code, and will help you

ramp up your skills when using the new version of C# 6 and Visual Studio Style and Approach Unique recipe-based guide that will help you gain a solid understanding of the new concepts in C# 6 and Visual Studio Enterprise 2015 in a concise and technically correct manner.

IOS 7 Programming Cookbook Packt Publishing Ltd

Use Qt 5 to design and build functional, appealing, and user-friendly graphical user interfaces (GUIs) for your applications. Key Features Learn to use Qt 5 to design and customize the look and feel of your application Improve the visual quality of an application by using graphics rendering and animation Understand the balance of presentation and web content that will make an application appealing yet functional Book Description With the growing need to develop GUIs for multiple targets and multiple screens, improving the visual quality of your application becomes important so that it stands out from your competitors. With its cross-platform ability and the latest UI paradigms, Qt makes it possible to build intuitive, interactive, and user-friendly user interfaces for your applications. Qt5 C++ GUI Programming Cookbook, Second Edition teaches you how to develop functional and appealing user interfaces using the latest version of QT5 and C++. This book will help you learn a variety of topics such as GUI customization and animation, graphics rendering, implementing Google Maps, and more. You will also be taken through advanced concepts like asynchronous programming, event handling using signals and slots, network programming, various aspects of optimizing your application. By the end of the book, you will be confident to design and customize GUI applications that meet your clients' expectations and have an understanding of best

practice solutions for common problems. What you will learn Animate GUI elements using Qt5's built-in animation system Draw shapes and 2D images using Qt5's powerful rendering system Implement an industry-standard OpenGL library in your project Build a mobile app that supports touch events and exports it onto devices Parse and extract data from an XML file and present it on your GUI Interact with web content by calling JavaScript functions from C++ Access MySQL and SQLite databases to retrieve data and display it on your GUI Who this book is for This intermediate-level book is designed for those who want to develop software using Qt 5. If you want to improve the visual quality and content presentation of your software application, this book is for you. Prior experience of C++ programming is required.

Python Network Programming Cookbook Springer

Discover the new features and widely used packages in Julia to solve complex computational problems in your statistical applications. Key Features Address the core problems of programming in Julia with the most popular packages for common tasks Tackle issues while working with Databases and Parallel data processing with Julia Explore advanced features such as metaprogramming, functional programming, and user defined types Book Description Julia, with its dynamic nature and high-performance, provides comparatively minimal time for the development of computational models with easy-to-maintain computational code. This book will be your solution-based guide as it will take you through different programming aspects with Julia. Starting with the new features of Julia 1.0, each recipe addresses a specific problem, providing a solution and explaining

how it works. You will work with the powerful Julia tools and data structures along with the most popular Julia packages. You will learn to create vectors, handle variables, and work with functions. You will be introduced to various recipes for numerical computing, distributed computing, and achieving high performance. You will see how to optimize data science programs with parallel computing and memory allocation. We will look into more advanced concepts such as metaprogramming and functional programming. Finally, you will learn how to tackle issues while working with databases and data processing, and will learn about on data science problems, data modeling, data analysis, data manipulation, parallel processing, and cloud computing with Julia. By the end of the book, you will have acquired the skills to work more effectively with your data. What you will learn: Boost your code's performance using Julia's unique features. Organize data in to fundamental types of collections: arrays and dictionaries. Organize data science processes within Julia and solve related problems. Scale Julia computations with cloud computing. Write data to IO streams with Julia and handle web transfer. Define your own immutable and mutable types. Speed up the development process using metaprogramming. Who this book is for: This book is for developers who would like to enhance their Julia programming skills and would like to get some quick solutions to their common programming problems. Basic Julia programming knowledge is assumed.

Modern C++ Programming Cookbook Packt Publishing Ltd
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. 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.

Over 50 Recipes to Master this Library of Programming Functions for Real-time Computer Vision Packt Publishing Ltd

An easy-to-follow guide full of hands-on examples on real-world networking tasks. It covers the advanced topics of network programming in Python using a set of selected recipes. If you are a network programmer, system/network administrator, or a web application developer, this book is ideal for you. You should have a basic familiarity with the Python programming language and TCP/IP networking concepts. However if you are a novice, you will develop an understanding of the concepts as you progress with this book. This book will serve as a supplementary material for developing hands-on skills in any academic course on network programming.

Clojure Programming Cookbook Packt Publishing Ltd

Handle every problem you come across in the world of Clojure programming with this expert collection of recipes About This Book Discover a wide variety of practical cases and real world techniques to enhance your productivity with Clojure. Learn to resolve the everyday issues you face with a functional mindset using Clojure You will learn to write highly efficient, more productive, and error-free programs without the risk of deadlocks and race-conditions Who This Book Is For This book is for Clojure developers who have some Clojure programming experience and are well aware of their shortcomings. If you want to learn to tackle common problems, become an expert, and develop a solid skill set, then this book is for you. What You Will Learn Manipulate, access, filter, and transform your data with Clojure Write efficient parallelized code through Clojure abstractions Tackle Complex Concurrency easily with Reactive Programming Build on Haskell abstractions to write dynamic functional tests Write AWS Lambda functions effortlessly Put Clojure in use into your IoT devices Use Clojure with Slack for instant monitoring Scaling your Clojure application using Docker Develop real-time system interactions using MQTT and websockets In Detail When it comes to learning and using a new language you need an effective guide to be by your side when things get rough. For Clojure developers, these recipes have everything you need to take on everything this language offers. This book is divided into three high impact sections. The first section gives you an introduction to live programming and best practices. We show you how to interact with your connections by manipulating, transforming, and merging collections. You'll learn how to work

with macros, protocols, multi-methods, and transducers. We'll also teach you how to work with languages such as Java, and Scala. The next section deals with intermediate-level content and enhances your Clojure skills, here we'll teach you concurrency programming with Clojure for high performance. We will provide you with advanced best practices, tips on Clojure programming, and show you how to work with Clojure while developing applications. In the final section you will learn how to test, deploy and analyze websocket behavior when your app is deployed in the cloud. Finally, we will take you through DevOps. Developing with Clojure has never been easier with these recipes by your side! Style and approach This book takes a recipe-based approach by diving directly into helpful programming concepts. It will give you a foolproof approach to programming and teach you how to deal with problems that may arise while working with Clojure. The book is divided into three sections giving you the freedom skip to the section of your choice depending on the problem faced.

Learning Assembly Language Elsevier

LabVIEW is an award-winning programming language that allows engineers to create "virtual" instruments on their desktop. This new edition details the powerful features of LabVIEW 8.0. Written in a highly accessible and readable style, LabVIEW Graphical Programming illustrates basic LabVIEW programming techniques, building up to advanced programming concepts. New to this edition is study material for the CLAD and CLD exams.

[Recipes for Cryptography, Authentication, Input Validation & More](#) Packt Publishing Ltd

Practical solutions to overcome challenges in creating console

and web applications and working with systems-level and embedded code, network programming, deep neural networks, and much more. Key Features Work through recipes featuring advanced concepts such as concurrency, unsafe code, and macros to migrate your codebase to the Rust programming language Learn how to run machine learning models with Rust Explore error handling, macros, and modularization to write maintainable code Book Description Rust 2018, Rust's first major milestone since version 1.0, brings more advancement in the Rust language. The Rust Programming Cookbook is a practical guide to help you overcome challenges when writing Rust code. This Rust book covers recipes for configuring Rust for different environments and architectural designs, and provides solutions to practical problems. It will also take you through Rust's core concepts, enabling you to create efficient, high-performance applications that use features such as zero-cost abstractions and improved memory management. As you progress, you'll delve into more advanced topics, including channels and actors, for building scalable, production-grade applications, and even get to

grips with error handling, macros, and modularization to write maintainable code. You will then learn how to overcome common roadblocks when using Rust for systems programming, IoT, web development, and network programming. Finally, you'll discover what Rust 2018 has to offer for embedded programmers. By the end of the book, you'll have learned how to build fast and safe applications and services using Rust. What you will learn Understand how Rust provides unique solutions to solve system programming language problems Grasp the core concepts of Rust to develop fast and safe applications Explore the possibility of integrating Rust units into existing applications for improved efficiency Discover how to achieve better parallelism and security with Rust Write Python extensions in Rust Compile external assembly files and use the Foreign Function Interface (FFI) Build web applications and services using Rust for high performance Who this book is for The Rust cookbook is for software developers looking to enhance their knowledge of Rust and leverage its features using modern programming practices. Familiarity with Rust language is expected to get the most out of this book.

Related with Machine Language Programming Cookbook:

- Las 50 Preguntas Del Examen De Manejo De New Jersey : [click here](#)