Getting Started With Julia Programming By Ivo Balbaert

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learn to develop high performance applications with dart 1 10 about this book develop apps for the modern web using dart and html5 clarify and shorten your dart code using enums build a complex ui for business applications with dart s polymer framework based on web components who this book is for if you want to become a developer for the modern web or wish to add dart to your tool belt then this book is for you the book assumes you have basic html experience and know how web applications work some previous programming experience preferably in a modern language like c java python ruby or javascript will give you a head start you can work with dart on your preferred platform be it linux mac os x or windows what you will learn structure your code using functions classes generics packages and libraries use the power of modern browsers to process and store data make games by drawing and using audio and video in the browser develop an application with a model driven and spiral paced approach discover the observatory tools for profiling memory and cpu usage of dart programs store your app s data in mysql and mongodb through dart build powerful html5 forms validate and store data in local storage and use web components to build your own user interface run your dart server on an

app engine managed vm in detail dart is an open source programming language for the web developed at google with a steadily growing community it is a single language for both client and server appropriate for the full range of devices on the web including phones tablets laptops and servers it encompasses the lessons of the last two decades of web programming this book will give you a thorough overview of dart taking you through its ecosystem syntax and development principles with this book you will build web games using html5 audio and video and also dive into processing and displaying data in html5 forms with dart you will also learn how web components fit together with html5 and how to apply them in business web applications of the future you will discover how to store data on the client communicate data between client and server with json and store json data with mongodb and mysql stop solving new challenges with the same old tools let dart show you a whole new way style and approach this book provides you a project based approach with everything you need to start or enhance your career in the future of web development with dart it follows the spiral approach each project builds up in successive spirals adding new features in each step

crystal is for ruby programmers who want more performance or for developers who enjoy working in a high level scripting environment crystal combines native execution speed and concurrency with ruby like syntax so you will feel right at home this book the first available on crystal shows you how to write applications that have the beauty and elegance of a modern language combined with the power of types and modern concurrency tooling now you can write beautiful code that runs faster scales better and is a breeze to deploy crystal is elegant to read and easy to program like ruby allowing full object oriented development its compiler is powerful enough to nearly always infer the type of your variables so you get the benefits of a statically typed language more robust code safety and execution speed while still reaching high productivity in development null pointer exceptions as in javascript java or c are a thing of the past crystal annihilates them just like rust explore the building blocks and design of the language and how you can use the crystal tool chain to build and manage powerful applications harness the power of the macro system as well as how to work with fibers and channels making concurrency as easy as possible learn how to use the kemal web framework and access databases and how to tap the potential of existing crystal libraries find the spot that crystal fills in today s software world with real world examples with crystal you can combine the best of both worlds the high level coding of dynamic languages and the safety and blazing performance of a natively compiled language what you need to develop in crystal you only need crystal v 0 26 the latest version a common text editor and a browser

this book is intended for software developers interested in systems level and application programming and are looking for a quick entry into using rust and understanding the core features of the framework it is assumed that you have a basic understanding of java c ruby python or javascript

enter the exciting world of julia a high performance language for technical computing key featuresleverage julia s high speed and efficiency for your applicationswork with julia in a multi core distributed and networked environmentapply julia to tackle problems concurrently and in a distributed

environmentbook description the release of julia 1 0 is now ready to change the technical world by combining the high productivity and ease of use of python and r with the lightning fast speed of c julia 1 0 programming gives you a head start in tackling your numerical and data problems you will begin by learning how to set up a running julia platform before exploring its various built in types with the help of practical examples this book walks you through two important collection types arrays and matrices in addition to this you will be taken through how type conversions and promotions work in the course of the book you will be introduced to the homo iconicity and metaprogramming concepts in julia you will understand how julia provides different ways to interact with an operating system as well as other languages and then you ll discover what macros are once you have grasped the basics you ll study what makes julia suitable for numerical and scientific computing and learn about the features provided by julia by the end of this book you will also have learned how to run external programs this book covers all you need to know about julia in order to leverage its high speed and efficiency for your applications what you will learnset up your julia environment to achieve high productivitycreate your own types to extend the built in type systemvisualize your data in julia with plotting packagesexplore the use of built in macros for testing and debugging among other usesapply julia to tackle problems concurrentlyintegrate julia with other languages such as c python and matlabwho this book is for julia 1 0 programming is for you if you are a statistician or data scientist who wants a crash course in the julia programming language while building big data applications a basic knowledge of mathematics is needed to understand the various methods that are used or created during the course of the book to exploit the capabilities that julia is designed with

if you are a dart developer looking to sharpen your skills and get insight and tips on how to put that knowledge into practice then this book is for you you should also have a basic knowledge of html and how web applications with browser clients and servers work in order to build dynamic dart applications

this book provides the reader with a comprehensive overview of the new open source programming language go in its first stable and maintained release go 1 from google the language is devised with java c like syntax so as to feel familiar to the bulk of programmers today but go code is much cleaner and simpler to read thus increasing the productivity of developers you will see how go simplifies programming with slices maps structs and interfaces incorporates functional programming makes error handling easy and secure simplifies concurrent and parallel programming with goroutines and channels and you will learn how to make use of go s excellent standard library program go the idiomatic way using patterns and best practices in over 225 working examples and 135 exercises this book focuses on the aspects that the reader needs to take part in the coming software revolution using go

discover how to use the next generation language red for full stack development from systems coding over user interfaces to blockchain

programming key features explore the latest features of red to build scalable fast and secure applications learn graphical programming and build highly sophisticated reactive applications get familiar with the specific concepts and techniques of red development like working with series viewing code as data and using dialects book description a key problem of software development today is software bloat where huge toolchains and development environments are needed in software coding and deployment red significantly reduces this bloat by offering a minimalist but complete toolchain this is the first introductory book about it and it will get you up and running with red as quickly as possible this book shows you how to write effective functions reduce code redundancies and improve code reuse it will be helpful for new programmers who are starting out with red to explore its wide and ever growing package ecosystem and also for experienced developers who want to add red to their skill set the book presents the fundamentals of programming in red and in depth informative examples using a step by step approach you will be taken through concepts and examples such as doing simple metaprogramming functions collections gui applications and more by the end of the book you will be fully equipped to start your own projects in red what you will learn set up your red environment to achieve the highest productivity get grounded in red gaining experience and insight through many examples and exercises build simple compact and portable applications analyze streams of data through parse compose gui applications with view and draw get prepared for smart contract blockchain programming in red who this book is for this book is for software developers and architects who want to learn red because of its conciseness flexibility and expressiveness and more specifically for its possibilities in gui apps and blockchain smart contracts programming some knowledge of the basic concepts and experience of any programming language is assumed

leverage the functional programming and concurrency features of rust and speed up your application development about this book get started with rust to build scalable and high performance applications enhance your application development skills using the power of rust discover the power of rust when developing concurrent applications for large and scalable software who this book is for the book is for developers looking for a quick entry into using rust and understanding the core features of the language basic programming knowledge is assumed what you will learn set up your rust environment to achieve the highest productivity bridge the performance gap between safe and unsafe languages use pattern matching to create flexible code apply generics and traits to develop widely applicable code organize your code in modules and crates build macros to extend rust s capabilities and reach apply tasks to tackle problems concurrently in a distributed environment in detail rust is the new open source fast and safe systems programming language for the 21st century developed at mozilla research and with a steadily growing community it was created to solve the dilemma between high level slow code with minimal control over the system and low level fast code with maximum system control it is no longer necessary to learn c c to develop resource intensive and low level systems applications this book will give you a head start to solve systems programming and application tasks with rust we start off with an argumentation of rust s unique place in today s landscape of programming languages you ll install rust and learn how to work with its package manager cargo the various concepts are introduced step by step variables types

functions and control structures to lay the groundwork then we explore more structured data such as strings arrays and enums and you ll see how pattern matching works throughout all this we stress the unique ways of reasoning that the rust compiler uses to produce safe code next we look at rust s specific way of error handling and the overall importance of traits in rust code the pillar of memory safety is treated in depth as we explore the various pointer kinds next you ll see how macros can simplify code generation and how to compose bigger projects with modules and crates finally you ll discover how we can write safe concurrent code in rust and interface with c programs get a view of the rust ecosystem and explore the use of the standard library style and approach the book takes a pragmatic approach showing various methods to solve systems programming tasks with rust and develop resource intensive and low level systems applications

the ultimate guide to crystal programming covering all its fundamental concepts such as oop and concurrent programming to help you write readable and safe code and build fast applications key features the book uses an example based approach for a better demonstration of the underlying concepts develop a thorough appreciation of the roles of the macro api and annotations leverage supportive tools spec documentation deployment and automation book description crystal is a programming language with a concise and user friendly syntax along with a seamless system and a performant core reaching c like speed this book will help you gain a deep understanding of the fundamental concepts of crystal and show you how to apply them to create various types of applications this book comes packed with step by step explanations of essential concepts and practical examples you ll learn how to use crystal s features to create complex and organized projects relying on oop and its most common design patterns as you progress you ll gain a solid understanding of both the basic and advanced features of crystal this will enable you to build any application including command line interface cli programs and web applications using ios concurrency and c bindings http servers and the json api by the end of this programming book you ll be equipped with the skills you need to use crystal programming for building and understanding any application you come across what you will learn explore how crystal combines the merits of other languages understand how to leverage existing c libraries without writing any c focus on zero cost abstractions with compile time macros use an example based approach to demonstrate language features develop a variety of crystal applications such as web and cli apps gain an understanding of the macro api and annotations who this book is for developers who want to learn crystal programming or anyone looking to improve their ability to solve real world problems using the language will find this book helpful experience in application development using any other programming language is expected however prior knowledge of crystal is not required

this book is for you if you are a data scientist or working on any technical or scientific computation projects the book assumes you have a basic working knowledge of high level dynamic languages such as matlab r python or ruby

use the rust programming language to build fully functional web applications with async rust to amplify security and boost the performance of your programs key features work with cutting edge web techniques such as distroless rust servers terraform and aws deployment get acquainted with async concepts such as actors and queuing tasks using lower level frameworks like tokio build a full web application in rust with a database authentication and frontend book descriptionare safety and high performance a big concern for you while developing web applications with this practical rust book you ll discover how you can implement rust on the web to achieve the desired performance and security as you learn techniques and tooling to build fully operational web apps in this second edition you ll get hands on with implementing emerging rust web frameworks including actix rocket and hyper it also features https configuration on aws when deploying a web application and introduces you to terraform for automating the building of web infrastructure on aws what s more this edition also covers advanced async topics built on the tokio async runtime this explores tcp and framing implementing async systems with the actor framework and queuing tasks on redis to be consumed by a number of worker nodes finally you ll go over best practices for packaging rust servers in distroless rust docker images with database drivers so your servers are a total size of 50mb each by the end of this book you ll have confidence in your skills to build robust functional and scalable web applications from scratch what you will learn structure and build scalable rust web apps by creating a basic to do list web app manage authentication and databases in rust web applications get to grips with wrapping web applications in distroless understand the building blocks of web development such as https tcp and middleware build app infrastructure on aws using terraform with databases servers load balancers https and url routing build end to end tests using postman build async systems implementing the actor model using tokio who this book is for this rust programming book is for web developers who want to learn and implement rust to build web applications developers familiar with languages such as python ruby and js will be able to use this book to build high performant web apps with rust although no prior experience in rust is necessary a solid understanding of web development principles along with basic knowledge of html css and javascript is necessary to get the most out of this book

master the art of designing web client and server with google s bold and productive language dart about this book create robust applications with unit tests documentation and diagnostic logging master the core dart language type system and key development tools connect to existing web services process json and create your own framework for the data display use mixins reflections annotations and other metadata programming techniques to create powerful app who this book is for if you are familiar with web development and are looking to learn or even just evaluate dart as a multipurpose language this learning path is for you no familiarity with the dart language is assumed for beginners it will serve as a guide to rapidly accelerate from a novice level to the master level for intermediate to advanced developers it will quickly fill in the gaps on dart and can explore a range of application types and powerful packages that are demonstrated in a practical manner what you will learn handle form data and encryption set up your dart environment to achieve the highest productivity run and debug the dart server and web applications and compile them in javascript work with postgresql an industry standard relational database system create robust applications with unit tests documentation and

diagnostic logging develop command line applications and explore the key data structures and libraries detect and use html5 features that will help you deliver rich cross platform content demonstrate the power of polymer web components for binding data and structuring your web pages in detail designed to create next generation apps google s dart offers a much more robust framework and also supersedes javascript in several aspects familiar yet innovative compact yet scalable it blows away the accumulated javascript legacy limitations dart was designed for great tool ability and developer productivity allowing you to create better application faster than before google chose it for their billion dollar advertising business and you have its power for your projects too the first module will introduce you the dart language starting from its conception to its current form and where it headed is through engaging substantial practical projects you will be taken through building typical applications and exploring the exciting new technologies of html5 the second module will show you how to add internalization support to your web applications and how i18n and i10n access can be embedded into your code to design applications that can be localized easily you will be shown how to organize client to server communication and how different html5 features can be used in dart finally this module will show you how you can store data locally break the storage limit and prevent security issues in your web application the third module is a pragmatic guide that will increase your expertise in writing all kinds of applications including web apps scripts and server side apps it provides rich insights on how to extend your dart programming skills altogether this course provides you the power to create powerful applications with dart without worrying about your knowledge leading to you having to make compromises to the end product this learning path has been curated from three packt products dart by example by davy mitchell mastering dart by sergey akopkokhyants dart cookbook by ivo balbaert style and approach this is an enticing learning path that starts from the very basics to gradually pick up pace as the story unfolds each topic is explained with the help of recipes that solves a real world problem involving hands on work thus giving you a deep insight into the world of dart

learn dynamic programming with julia to build apps for data analysis visualization machine learning and the web key featuresleverage julia s high speed and efficiency to build fast efficient applicationsperform supervised and unsupervised machine learning and time series analysistackle problems concurrently and in a distributed environmentbook description julia offers the high productivity and ease of use of python and r with the lightning fast speed of c there s never been a better time to learn this language thanks to its large scale adoption across a wide range of domains including fintech biotech and artificial intelligence ai you will begin by learning how to set up a running julia platform before exploring its various built in types this learning path walks you through two important collection types arrays and matrices you ll be taken through how type conversions and promotions work and in further chapters you ll study how julia interacts with operating systems and other languages you ll also learn about the use of macros what makes julia suitable for numerical and scientific computing and how to run external programs once you have grasped the basics this learning path goes on to how to analyze the iris dataset using dataframes while building a web scraper and a web app you ll explore the use of functions methods and multiple dispatches in the final chapters you ll delve into machine learning where you ll build a book recommender system by

the end of this learning path you ll be well versed with julia and have the skills you need to leverage its high speed and efficiency for your applications this learning path includes content from the following packt products julia 1 0 programming second edition by ivo balbaertjulia programming projects by adrian salceanuwhat you will learncreate your own types to extend the built in type systemvisualize your data in julia with plotting packagesexplore the use of built in macros for testing and debuggingintegrate julia with other languages such as c python and matlabanalyze and manipulate datasets using julia and dataframesdevelop and run a web app using julia and the http packagebuild a recommendation system using supervised machine learningwho this book is for if you are a statistician or data scientist who wants a quick course in the julia programming language while building big data applications this learning path is for you basic knowledge of mathematics and programming is a must

leverage the power of julia to design and develop high performing programs about this book get to know the best techniques to create blazingly fast programs with julia stand out from the crowd by developing code that runs faster than your peers code complete an extensive data science project through the entire cycle from etl to analytics and data visualization who this book is for this learning path is for data scientists and for all those who work in technical and scientific computation projects it will be great for julia developers who are interested in high performance technical computing this learning path assumes that you already have some basic working knowledge of julia s syntax and high level dynamic languages such as matlab r python or ruby what you will learn set up your julia environment to achieve the highest productivity solve your tasks in a high level dynamic language and use types for your data only when needed apply julia to tackle problems concurrently and in a distributed environment get a sense of the possibilities and limitations of julia s performance use julia arrays to write high performance code build a data science project through the entire cycle of etl analytics and data visualization display graphics and visualizations to carry out modeling and simulation in julia develop your own packages and contribute to the julia community in detail in this learning path you will learn to use an interesting and dynamic programming language julia you will get a chance to tackle your numerical and data problems with julia you ll begin the journey by setting up a running julia platform before exploring its various built in types we ll then move on to the various functions and constructs in julia we ll walk through the two important collection types arrays and matrices in julia you will dive into how julia uses type information to achieve its performance goals and how to use multiple dispatch to help the compiler emit high performance machine code you will see how julia s design makes code fast and you ll see its distributed computing capabilities by the end of this learning path you will see how data works using simple statistics and analytics and you ll discover its high and dynamic performance its real strength which makes it particularly useful in highly intensive computing tasks this learning path combines some of the best that packt has to offer in one complete curated package it includes content from the following packt products getting started with julia by ivo balvaert julia high performance by avik sengupta mastering julia by malcolm sherrington style and approach this hands on manual will give you great explanations of the important concepts related to julia programming

dart language reference guide the dart language reference guide is a comprehensive and meticulously organized resource designed to cater to both budding developers and seasoned professionals seeking mastery over the dart programming language starting from core language foundations including lexical structure data types operators and null safety it provides a systematic exploration of dart s syntax and semantics laying a solid groundwork for effective and robust code development readers will gain deep insights into comments and documentation standards variable scope and the advanced rules that govern how dart code is written parsed and maintained building on these essentials the guide delves into dart s object oriented paradigm advanced type system and powerful generics elucidating complex concepts such as class hierarchies mixins metadata and extension methods practical sections on error handling asynchronous programming and defensive approaches ensure readers can confidently navigate challenges faced in high performance and concurrent applications in depth coverage of collections utilities and debugging techniques further empower developers to write safe efficient and maintainable code while robust patterns for resource management and diagnostics promote production ready application design recognizing dart s pivotal role across modern development environments the book addresses interoperability with native platforms javascript and diverse runtime targets providing actionable strategies for integration and code sharing it concludes with critical guidance on tools packages automated testing build systems and formal language specification fostering a holistic understanding of both the dart ecosystem and its evolving future the dart language reference guide stands as an authoritative companion equipping developers to excel in both everyday programming tasks and advanced architectural endeavors

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write code that s clean concise and to the point code that others will read with pleasure and reuse comparing your code to that of expert programmers is a great way to improve your coding skills get hands on advice to level up your coding style through small and understandable examples that compare flawed code to an improved solution discover handy tips and tricks as well as common bugs an experienced java programmer needs to know make your way from a java novice to a master craftsman this book is a useful companion for anyone learning to write clean java code the authors introduce you to the fundamentals of becoming a software craftsman by comparing pieces of problematic code with an improved version to help you to develop a sense for clean code this unique before and after approach teaches you to create clean java code learn to keep your booleans in check dodge formatting bugs get rid of magic numbers and use the right style of iteration write informative comments when needed but avoid them when they are not improve the understandability of your code for others by following conventions and naming your objects accurately make your programs more robust with intelligent exception handling and learn to assert that everything works as expected using junit5 as your testing framework impress your peers with an elegant functional programming style and clear cut object oriented class design writing excellent code isn t just about implementing the functionality it s about the small important details that make your code more readable maintainable flexible robust and faster java by comparison teaches you to spot these details and trains you to become a better programmer what you need you need a java 8 compiler a text editor and a fresh mind that s it

start building fast and robust applications with the power of rust by your side about this book get started with the language to build scalable and high performance applications this book will help c c developers gain better performance and memory management discover the power of rust when developing concurrent applications for large and scalable software who this book is for the book is for absolute beginners to rust who want to build high performance concurrent applications for their projects it is suitable for developers who have a basic knowledge of programming and developers who are using the c c language to write their applications no knowledge of rust is expected what you will learn set up rust for windows linux and os x write effective code using rust expand your rust applications using libraries interface existing non rust libraries with your rust applications use the standard library within your applications understand memory management within rust and speed efficiency when passing variables create more complex data types study concurrency in rust with multi threaded applications and sync threading techniques to improve the performance of an

application problem in detail rust is a highly concurrent and high performance language that focuses on safety and speed memory management and writing clean code it also guarantees thread safety and its aim is to improve the performance of existing applications its potential is shown by the fact that it has been backed by mozilla to solve the critical problem of concurrency learning rust will teach you to build concurrent fast and robust applications from learning the basic syntax to writing complex functions this book will is your one stop guide to get up to speed with the fundamentals of rust programming we will cover the essentials of the language including variables procedures output compiling installing and memory handling you will learn how to write object oriented code work with generics conduct pattern matching and build macros you will get to know how to communicate with users and other services as well as getting to grips with generics scoping and more advanced conditions you will also discover how to extend the compilation unit in rust by the end of this book you will be able to create a complex application in rust to move forward with style and approach this comprehensive book will focus on the rust syntax functions data types and conducting pattern matching for programmers it is divided into three parts and each part of the book has an objective to enable the readers to create their own applications at an appropriate level ultimately towards creating complex applications

design and develop modern web applications with google s bold and productive language through engaging example projects about this book full of engaging and varied example projects to equip you to build your own web applications learn the dart language and key libraries productively create fast and reliable web applications who this book is for if you are a front or back end web developer who is looking to build complex full featured web applications without the quagmire of disconnected javascript frameworks this book is a practical walkthrough of substantial applications that will have you and your team coding dart in a productive manner this book will give you a compiled optional typed scalable environment to rapidly develop applications as dart was designed to be familiar any developer with even a small amount of knowledge of javascript or another programming language will be at home with the language immediately and will be coding quickly what you will learn master the core dart language type system and key development tools connect to existing web services process json and create your own framework for the data display run and debug the dart server and web applications and compile them in javascript handle form data and encryption build and deploy server applications on the major oses and implement the rest api work with postgresql an industry standard relational database system create robust applications with unit tests documentation and diagnostic logging develop command line applications and explore the key data structures and libraries in detail designed to create next generation apps google s dart offers a much more robust framework and also supersedes javascript in several aspects familiar yet innovative compact yet scalable it blows away the accumulated javascript legacy limitations dart was designed for great tool ability and developer productivity allowing you to create better application faster than before google chose it for their billion dollar advertising business and you have its power for your projects too this book will introduce you the dart language starting from its conception to its current form and where it headed is through engaging substantial practical projects you will be taken through building typical applications and exploring the exciting new technologies of

html5 with example code projects such as a live data monitoring and viewing system a blogging system a slides presentation application and more then this book will walk you through step by step through building data driven web applications with ease and speed style and approach a varied collection of compelling practical dart projects that are developed progressively with full explanations of concepts and implementation each project introduces features of the language and environment demonstrating how dart can be used in rich structured web applications

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Introduction

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