```kotlin
import photomover.cli.web.StartWebOptions

fun main(arguments: Array<String>) {
    val commands = mapOf(
        "organize" to wrapOperation(::organize, OrganizeOptions()),
        "upload" to wrapOperation(::upload, UploadOptions()),
        "startWeb" to wrapOperation(::start, StartWebOptions()))
    val args = if (arguments.size == 0) {
        array("startWeb")
    } else {
        arguments
    }
    val command = commands[args[0]]
    if (command == null) {
        println("Command '${args[0]}' is not supported.")
        println("Please specify one of following: ${commands.keySet()}")
    } else {
        println("Starting ${args[0]}")
        command(args.drop(1))
    }
}

fun wrapOperation<T>(
        operation: (options: T) -> Unit, defaultOptions: T): (args: List<String>) -> Unit {
    return { args ->
        val parser = CmdLineParser(defaultOptions)
        try {
            parser.parseArgument(args)
        } catch (ex: CmdLineException) {
            println(ex.getMessage())
            println(parser.printUsage(System.err))
        }
        println("args: $defaultOptions")
        operation(defaultOptions)
    }
}
```

Kotlin Programming Language

Nate Ebel

Kotlin Programming Language:

The Basics of Programming in Kotlin Moaml Mohmmed,2019-07-02 A book containing examples and explanations of examples For beginners there is a special section for professionals It brings you more and more understandingAt the I O 2017 conference Google announced its support for the Kotlin programming language for Android application development and will be included in the new version of Android Studio 3 0 and no additional installation settings are required Java and Kotlin are among the most popular programming languages used by Google to develop Android applications Since 2011 Kotlin has emerged as a new language for Java Virtual Machine developed by a team of St Petersburg programmers called Jet Brains The team launched the first stable version of Kotlin last year Kotlin 1 0 and since then they released the new update kotlin 1 1 in early March and soon began to talk about the world and also loved by the software community The team receives and relies on language suggestions during development as well as Open Source on Github and of course as a programmer this is great for you To compare now between them and Java of course we must first make clear that Kotlin is not here to replace Java at all any code written in Java will work with Kotlin and vice versa Kotlin requires fewer lines of codeLess by about 20% As we know the age of the language of Java 22 years created by Oracle to be compatible with the above which means that each new version to support features exist in the versions that preceded it so with each update becomes more difficult to include new features It is written every time In contrast Kotlin was built from scratch meaning the absence of the structure of the layers stacked on top of each other Less collapses occur with KotlinJTM s JTM has fewer problems compared to the so called one billion dollar mistake any problem with NullPointerExeption that can be avoided here This problem exists in all programming languages but different ways to deal with it For example in Java you have to manually check if the link is null or not and if you make a mistake surprise the program has collapsed In Kotlin all object objects are set to Null as well as automatic verification of the NullPointer exception to ensure that the code works properly without it Kotlin saves you a lot of time Fewer codes guarantee fewer software errors and therefore less time spent on coding Typically any software development team calculates the total cost of the project according to the number of encoding hours Interop interoperabilityYou might wonder how this will affect the code you wrote Do not worry as I mentioned earlier Kotlin is not here to replace Java but they are perfectly compatible Which means that you can write part of the code using Java and the rest using a Kotlin and will work together without problems In addition there is a tool in Android Studio that translates java into Kotlin and it works very well giving you a glimpse of what the Kotlin Java method looks like *Learn Kotlin for Android Development* Peter Späth,2019-05-29 Build Android apps and learn the essentials of the popular Kotlin programming language and APIs This book will teach you the key Kotlin skills and techniques important for creating your very own Android apps Apart from introducing Kotlin programming Learn Kotlin for Android Development stresses clean code principles and introduces object oriented and functional programming as a starting point for developing Android apps After reading and

using this book you ll have a foundation to take away and apply to your own Kotlin based Android app development You ll be able to write useful and efficient Kotlin based apps for Android using most of the features Kotlin as a language has to offer What You Will Learn Build your first Kotlin app that runs on Android Work with Kotlin classes and objects for Android Use constructs loops decisions and scopes Carry out operations on data Master data containers arrays and collections Handle exceptions and access external libraries Who This Book Is For Very little programming experience is required no prior knowledge of Kotlin needed **Kotlin Basics** Moaml Mohmmed,2019-08-16 kotlin basicsKotlin is a new open source programming language like Java JavaScript etc It is a highlevel strongly statically typed language that combines functional and technical part in asame place Currently Kotlin targets Java and JavaScript It runs on JVM Kotlin is influenced by other programming languages such as Java Scala Groovy Gosu etc The syntax of Kotlin may not be exactly similar to JAVA however internally Kotlin isreliant on the existing Java Class library to produce wonderful results for the programmers Kotlin provides interoperability code safety and clarity to the developers around theworld StringBuilder sb new StringBuilder in Kotlin becomesval sb StringBuilder You can see that functions are defined with the fun keyword and that semicolons are now optional when newlines are present The val keyword declares a read only property or local variable Similarly the var keyword declares a mutable property or local variable Nevertheless Kotlin is strongly typed The val and var keywords can be used only when the type can be inferred Otherwise you need to declare the type Type inference seems to be improving with each release of Kotlin Have a look at the function declaration near the top of both panes The return type in Java precedes the prototype but in Kotlin it succeeds the prototype demarcated with a colon as in Pascal **Kotlin Programming** Josh Skeen,David Greenhalgh,2018-08-09 Kotlin is a statically typed programming language designed to interoperate with Java and fully supported by Google on the Android operating system Based on Big Nerd Ranch s popular Kotlin Essentials course this guide shows you how to work effectively with the Kotlin programming language through hands on examples and clear explanations of key Kotlin concepts and foundational APIs Written for Kotlin 1 2 this book will also introduce you to JetBrains IntelliJ IDEA development environment Whether you are an experienced Android developer looking for modern features beyond what Java offers or a new developer ready to learn your first programming language the authors will guide you from first principles to advanced usage of Kotlin By the end of this book you will be empowered to create reliable concise applications in Kotlin *Kotlin Quick Start Guide* Marko Devcic,2018-08-31 Get started with Kotlin programming for building real world applications Key Features Start programming with Kotlin Explore Kotlin language syntax standard libraries and Java Interoperability Builds an example application with what you learn Book Description Kotlin is a general purpose object oriented language that primarily targets the JVM and Android Intended as a better alternative to Java its main goals are high interoperability with Java and increased developer productivity Kotlin is still a new language and this book will help you to learn the core Kotlin features and get you ready for developing applications with Kotlin This book covers Kotlin

features in detail and explains them with practical code examples You will learn how to set up the environment and take your frst steps with Kotlin and its syntax We will cover the basics of the language including functions variables and basic data types With the basics covered the next chapters show how functions are first class citizens in Kotlin and deal with the object oriented side of Kotlin You will move on to more advanced features of Kotlin You will explore Kotlin s Standard Library and learn how to work with the Collections API The book finishes by putting Kotlin in to practice showing how to build a desktop app By the end of this book you will be confident enough to use Kotlin for your next project What you will learn Programming in Kotlin language syntax basic types control ow classes and OOP Writing functions and functional programming in Kotlin Defning and importing from packages in Kotlin Running Kotlin on JVMs and Android runtimes Working with the Kotlin Standard Library and advanced features of Kotlin programming Setting up a Kotlin development environment with JetBrains tools Building real world applications with Kotlin Who this book is for This book is intended for anybody who wants to learn the most important Kotlin features No experience of Kotlin is expected   *Learn Kotlin Programming* Stephen Samuel,Stefan Bocutiu,2019-05-29 Delve into the world of Kotlin and learn to build powerful Android and web applications Key FeaturesLearn the fundamentals of Kotlin to write high quality codeTest and debug your applications with the different unit testing frameworks in KotlinExplore Kotlin s interesting features such as null safety reflection and annotationsBook Description Kotlin is a general purpose programming language used for developing cross platform applications Complete with a comprehensive introduction and projects covering the full set of Kotlin programming features this book will take you through the fundamentals of Kotlin and get you up to speed in no time Learn Kotlin Programming covers the installation tools and how to write basic programs in Kotlin You ll learn how to implement object oriented programming in Kotlin and easily reuse your program or parts of it The book explains DSL construction serialization null safety aspects and type parameterization to help you build robust apps You ll learn how to destructure expressions and write your own You ll then get to grips with building scalable apps by exploring advanced topics such as testing concurrency microservices coroutines and Kotlin DSL builders Furthermore you ll be introduced to the kotlinx serialization framework which is used to persist objects in JSON Protobuf and other formats By the end of this book you ll be well versed with all the new features in Kotlin and will be able to build robust applications skillfully What you will learnExplore the latest Kotlin features in order to write structured and readable object oriented codeGet to grips with using lambdas and higher order functionsWrite unit tests and integrate Kotlin with Java codeCreate real world apps in Kotlin in the microservices styleUse Kotlin extensions with the Java collections libraryUncover destructuring expressions and find out how to write your ownUnderstand how Java nullable code can be integrated with Kotlin featuresWho this book is for If you re a beginner or intermediate programmer who wants to learn Kotlin to build applications this book is for you You ll also find this book useful if you re a Java developer interested in switching to Kotlin   *Kotlin Programming Cookbook* Rashi Karanpuria,Aanand Shekhar Roy,2018-01-25 Discover Android

programming and web development by understanding the concepts of Kotlin Programming Key Features Practical solutions to your common programming problems with Kotlin 1 1 Leverage the functional power of Kotlin to ease your Android application development Learn to use Java code in conjunction with Kotlin Book Description The Android team has announced first class support for Kotlin 1 1 This acts as an added boost to the language and more and more developers are now looking at Kotlin for their application development This recipe based book will be your guide to learning the Kotlin programming language The recipes in this book build from simple language concepts to more complex applications of the language After the fundamentals of the language you will learn how to apply the object oriented programming features of Kotlin 1 1 Programming with Lambdas will show you how to use the functional power of Kotlin This book has recipes that will get you started with Android programming with Kotlin 1 1 providing quick solutions to common problems encountered during Android app development You will also be taken through recipes that will teach you microservice and concurrent programming with Kotlin Going forward you will learn to test and secure your applications with Kotlin Finally this book supplies recipes that will help you migrate your Java code to Kotlin and will help ensure that it s interoperable with Java What you will learn Understand the basics and object oriented concepts of Kotlin Programming Explore the full potential of collection frameworks in Kotlin Work with SQLite databases in Android make network calls and fetch data over a network Use Kotlin s Anko library for efficient and quick Android development Uncover some of the best features of Kotlin Lambdas and Delegates Set up web service development environments write servlets and build RESTful services with Kotlin Learn how to write unit tests integration tests and instrumentation acceptance tests Who this book is for This book will appeal to Kotlin developers keen to find solutions for their common programming problems Java programming knowledge would be an added advantage **Beginner's Guide to Kotlin Programming** John Hunt,2021-10-09 This textbook assumes very little knowledge of programming so whether you have dabbled with a little JavaScript played with a bit of Python written Java or have virtually no programming experience at all you will find that it is for you The first part of the book introduces Kotlin program structures as well as conditional flow of control features such as if and when expressions as well as iteration loops such as for while and do while Subsequent chapters explain how functions are implemented in Kotlin and introduce concepts from functional programming such as higher order functions and curried functions The second part focusses on object oriented programming techniques these include classes inheritance abstraction and interfaces The third part presents container data types such as Arrays and collections including Lists Sets and Maps and the fourth part considers concurrency and parallelism using Kotlin coroutines The book concludes with an introduction to Android mobile application development using Kotlin Clear steps are provided explaining how to set up your environment and get started writing your own Kotlin programs An important aspect of the book is teaching by example and there are many examples presented throughout the chapters These examples are supported by a public GitHub repository that provides complete working code as well as sample

solutions to the chapter exercises This helps illustrate how to write well structured clear idiomatic Kotlin to build real applications **Android Programming with Kotlin for Beginners** John Horton,2019-04-30 Build smart looking Kotlin apps with UI and functionality for the Android platform Key FeaturesStart your Android programming career or just have fun publishing apps on Google Play marketplaceThe first principle introduction to Kotlin through Android to start building easy to use appsLearn by example and build four real world apps and dozens of mini appsBook Description Android is the most popular mobile operating system in the world and Kotlin has been declared by Google as a first class programming language to build Android apps With the imminent arrival of the most anticipated Android update Android 10 Q this book gets you started building apps compatible with the latest version of Android It adopts a project style approach where we focus on teaching the fundamentals of Android app development and the essentials of Kotlin by building three real world apps and more than a dozen mini apps The book begins by giving you a strong grasp of how Kotlin and Android work together before gradually moving onto exploring the various Android APIs for building stunning apps for Android with ease You will learn to make your apps more presentable using different layouts You will dive deep into Kotlin programming concepts such as variables functions data structures Object Oriented code and how to connect your Kotlin code to the UI You will learn to add multilingual text so that your app is accessible to millions of more potential users You will learn how animation graphics and sound effects work and are implemented in your Android app By the end of the book you will have sound knowledge about significant Kotlin programming concepts and start building your own fully featured Android apps What you will learnLearn how Kotlin and Android work togetherBuild a graphical drawing app using Object Oriented Programming OOP principlesBuild beautiful practical layouts using ScrollView RecyclerView NavigationView ViewPager and CardViewWrite Kotlin code to manage an apps data using different strategies including JSON and the built in Android SQLite databaseAdd user interaction data captures sound and animation to your appsImplement dialog boxes to capture input from the userBuild a simple database app that sorts and stores the user s dataWho this book is for This book is for people who are new to Kotlin Android and want to develop Android apps It also acts as a refresher for those who have some experience in programming with Android and Kotlin *Kotlin Programming for Beginners* Nathan Metzler,2021-02-20 Discover How to Build Highly Resilient Scalable and Beautiful Android Apps With the Kotlin Programming Language Are you looking for the perfect language as a beginner to kickstart your journey into software development Are you a Java programmer or any other programmer looking for an efficient way to get started designing awesome Android apps If your answer is yes then keep reading Kotlin is a powerful general purpose programming language suitable for cross platform development In this comprehensive beginner s guide to Kotlin programming you ll master the core foundations of Kotlin as well as build your own basic Android app from scratch Here s what you re going to learn in Kotlin Programming for Beginners Everything you need to know about Kotlin and how it works together with Android How to set up your environment for effective Kotlin application

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design patternsUncover multithreading by Kotlin wayUnderstand about arrays and collectionsUnderstand the importance of object oriented design patternsUnderstand about exception handling and testing in OOP with KotlinWho this book is for This book is for programmers and developers who wish to learn Object oriented programming principles and apply them to build robust and scalable applications Basic knowledge in Kotlin programming is assumed **Principles, Policies, and Applications of Kotlin Programming** Tran, Duy Thanh,Huh, Jun-Ho,2023-05-23 Kotlin programming has been recognized as the main language for deploying Android projects so this language has tremendous potential In order to understand the main principles and best applications of Kotlin programming further research is needed Principles Policies and Applications of Kotlin Programming provides complete knowledge of Kotlin programming It presents the latest technology of Vert X Restful API programming application by Kotlin as well as authentication techniques for Restful APIs which are new and important content in backend deployment for software Covering topics such as array processing graphic user interface and string processing this premier reference source is a valuable resource for software developers programmers students and educators of higher education researchers and academicians **Learn to Program with Kotlin** Tim Lavers,2021-06-12 Teach yourself programming starting with the basics and progressing to a series of exciting projects using Kotlin one of today s hottest programming languages This book starts with the absolute basics and then introduces just enough syntax to get into some fascinating projects These include text processing a statistical analysis of Jane Austen s novels solving anagrams and working with palindromes image processing cropping and resizing images and pixel transformation and computer vision finding digits parsing images and reading speed signs The projects are developed in tiny steps and complete solutions are provided Some of these projects include core data science concepts giving you skills in one of the most important areas of modern programming Along the way you ll cover functional programming object oriented programming OOP refactoring and writing unit tests After reading Learn to Program with Kotlin you ll come away with practical insights and code to get you started right away with programming using Kotlin for your own projects What You Will Learn Gain the basics of Kotlin using the IntelliJ Java IDE Implement OOP with Kotlin along with unit testing and code refactoring using a series of text related projects Harness functional programming with Kotlin by building an image processing library Write software to locate and read speed signs in photos Who Is This Book For Anyone who wants to learn how to program or code from scratch Also great for experienced programmers who want to know more about Kotlin **Mastering Kotlin** Sufyan Bin Uzayr,2022-11-22 This book is a detailed guide that will help learners get started with Kotlin programming It talks about the basics and then moves on to practical exercises to help readers quickly gain the required knowledge This book is meant for both seasoned developers as well as learners without a formal coding background Head First Kotlin Dawn Griffiths,David Griffiths,2019-02-13 What will you learn from this book Head First Kotlin is a complete introduction to coding in Kotlin This hands on book helps you learn the Kotlin language with a unique method that goes beyond syntax and how to

manuals and teaches you how to think like a great Kotlin developer You ll learn everything from language fundamentals to collections generics lambdas and higher order functions Along the way you ll get to play with both object oriented and functional programming If you want to really understand Kotlin this is the book for you Why does this book look so different Based on the latest research in cognitive science and learning theory Head First Kotlin 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 multisensory learning experience is designed for the way your brain really works *Programming Kotlin* Stephen Samuel,Stefan Bocutiu,2017-01-18 Familiarize yourself with all of Kotlin s features with this in depth guide About This Book Get a thorough introduction to Kotlin Learn to use Java code alongside Kotlin without any hiccups Get a complete overview of null safety Generics and many more interesting features Who This Book Is For The book is for existing Java developers who want to learn more about an alternative JVM language If you want to see what Kotlin has to offer this book is ideal for you What You Will Learn Use new features to write structured and readable object oriented code Find out how to use lambdas and higher order functions to write clean reusable and simple code Write unit tests and integrate Kotlin tests with Java code in a transitioning code base Write real world production code in Kotlin in the style of microservices Leverage Kotlin s extensions to the Java collections library Use destructuring expressions and find out how to write your own Write code that avoids null pointer errors and see how Java nullable code can integrate with features in a Kotlin codebase Discover how to write functions in Kotlin see the new features available and extend existing libraries Learn to write an algebraic data types and figure out when they should be used In Detail Kotlin has been making waves ever since it was open sourced by JetBrains in 2011 it has been praised by developers across the world and is already being adopted by companies This book provides a detailed introduction to Kotlin that shows you all its features and will enable you to write Kotlin code to production We start with the basics get you familiar with running Kotlin code setting up tools and instructions that you can use to write basic programs Next we cover object oriented code functions lambdas and properties all while using Kotlin s new features Then we move on to null safety aspects and type parameterization We show you how to destructure expressions and even write your own We also take you through important topics like testing concurrency microservices and a whole lot more By the end of this book you will be able to compose different services and build your own applications Style and approach An easy to follow guide that covers the full set of features in Kotlin programming **Mastering Kotlin** Nate Ebel,2019-10-11 Explore popular language features Java to Kotlin interoperability advanced topics and practical applications by building a variety of sample projects Key FeaturesUnderstand and leverage the syntax tools and patterns by writing code in KotlinExplore practical topics such as Java interop concurrency with coroutines and functional programmingDiscover how to use Kotlin for build targets like Android iOS JavaScript and backend serviceBook Description Using Kotlin without taking advantage of its power and interoperability is like owning a sports car and never taking it out of the garage While documentation and introductory

resources can help you learn the basics of Kotlin the fact that it s a new language means that there are limited learning resources and code bases available in comparison to Java and other established languages This Kotlin book will show you how to leverage software designs and concepts that have made Java the most dominant enterprise programming language You ll understand how Kotlin is a modern approach to object oriented programming OOP This book will take you through the vast array of features that Kotlin provides over other languages These features include seamless interoperability with Java efficient syntax built in functional programming constructs and support for creating your own DSL Finally you will gain an understanding of implementing practical design patterns and best practices to help you master the Kotlin language By the end of the book you ll have obtained an advanced understanding of Kotlin in order to be able to build production grade applications What you will learnModel data using interfaces classes and data classesGrapple with practical interoperability challenges and solutions with JavaBuild parallel apps using concurrency solutions such as coroutinesExplore functional reactive and imperative programming to build flexible appsDiscover how to build your own domain specific languageEmbrace functional programming using the standard library and ArrowDelve into the use of Kotlin for frontend JavaScript developmentBuild server side services using Kotlin and KtorWho this book is for If you re a Kotlin developer looking to further their skills or a professional Java developer looking for better or professional resources in order to make a switch to Kotlin this book is for you Familiarity with Kotlin programming will assist with understanding key concepts covered in the book

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Kotlin Programming Language Introduction

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