

Javafx 8 Introduction By Example

Develop cross-platform, feature-rich JavaFX GUI applications with expert instruction from Java guru Herb Schildt. Introducing JavaFX 8 Programming provides a fast-paced introduction to JavaFX, Java's next-generation GUI programming tool. In this easy-to-read guide from Oracle Press, Java guru Herb Schildt presents the key topics and concepts that all Java developers will need to begin developing modern, dynamic JavaFX GUI applications. Of course, it's written in the cohesive, yet concise format that has made Schildt an international best-selling programming author. Designed expressly for Java programmers, the book's focus is on the new JavaFX API. As a result, all examples are written entirely in Java. The book begins with the fundamentals, including the general form of a JavaFX program. Readers then advance to event handling, controls, images, fonts, layers, effects, transforms, animations (including 3D animations), menus, and more. Numerous complete examples are included that put key topics and techniques into action. Presents a cohesive, fast-paced overview of key facets of JavaFX 8 programming. Sample code used in the text is available for download from the McGraw-Hill/Oracle Press Web site. Written in Herb Schildt's clear, crisp, uncompromising style that has made him the choice of millions worldwide.

Create media-rich client applications using JavaFX 9 and the Java 9 platform. Learn to create GUI-based applications for mobile devices, desktop PCs, and even the web. Incorporate media such as audio and video into your applications. Interface with hardware devices such as Arduino and Leap Motion. Respond to gesture control through devices such as the Leap Motion Controller. Take advantage of the new HTTP2 API to make RESTful web requests and WebSockets calls. New to this edition are examples of creating stylized text and loading custom fonts, guidance for working with Scene Builder to create visual layouts, and new content on developing iOS and Android applications using Gluon mobile. The book also covers advanced topics such as custom controls, JavaFX 3D, gesture devices, printing, and animation. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Is your goal to develop visually exciting applications in the Java language? Then this is the book you want at your side. JavaFX 9 by Example is chock-full of engaging, fun-to-work examples that bring you up to speed on the major facets of JavaFX 9. You'll learn to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. The book: Has been updated with new content on modular development, new APIs, and an example using the Scene Builder tool. Is filled with fun and practical code examples that you can modify and drop into your own projects. Includes an example using Arduino and an accelerometer sensor to track motion in 3D. Helps you create JavaFX applications for iOS and Android devices. What You'll Learn: Work with touch-based interfaces. Interpret gesture-based events. Use shapes, color, text, and UI controls to create a simple click and point game. Add audio and video to your projects. Utilize JavaFX 3D. Create custom controls using CSS, SVG, and Canvas APIs. Organize code into modules using Java Platform Module System (Project Jigsaw). Who This Book Is For: Java developers developing visual and media-rich applications to run on PCs, phones, tablets, Arduino controllers, and more. This includes

developers tasked with creating visualizations of data from statistical analysis and from sensor networks. Any developer wanting to develop a polished user-interface in Java will find much to like in this book.

"Java 8 in Action is a clearly written guide to the new features of Java 8. It begins with a practical introduction to lambdas, using real-world Java code. Next, it covers the new Streams API and shows how you can use it to make collection-based code radically easier to understand and maintain. It also explains other major Java 8 features including default methods, Optional, CompletableFuture, and the new Date and Time API ... This book/course is written for programmers familiar with Java and basic OO programming."-- Resource description page.

JavaFX 10 is used to create media-rich client applications. If you are a Java developer and want to create graphical applications and skill up to become a pro at Java GUI programming, then this is the right choice for you. You will be guided through the different components of the JavaFX application, to master and combine them.

Pro Java 8 Programming covers the core Java development kit. It takes advantage of the finer points of the core standard edition (SE) and development kit version 8. You'll discover the particulars of working with the Java language and APIs to develop applications in many different contexts. You will also delve into more advanced topics like lambda expressions, closures, new i/o (NIO.2), enums, generics, XML, metadata and the Swing APIs for GUI design and development. By the end of the book, you'll be fully prepared to take advantage of Java's ease of development, and able to create powerful, sophisticated Java applications.

Java 8 Recipes offers solutions to common programming problems encountered while developing Java-based applications. Fully updated with the newest features and techniques available, Java 8 Recipes provides code examples involving Lambdas, embedded scripting with Nashorn, the new date-time API, stream support, functional interfaces, and much more. Especial emphasis is given to features such as lambdas that are newly introduced in Java 8. Content is presented in the popular problem-solution format: Look up the programming problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved! The problem-solution approach sets Java 8 Recipes apart. Java 8 Recipes is focused less on the language itself and more on what you can do with it that is useful. The book respects your time by always focusing on a task that you might want to perform using the language. Solutions come first. Explanations come later. You are free to crib from the book and apply the code examples directly to your own projects. Covers the newly-released Java 8, including a brand new chapter on lambdas Focuses especially on up-and-coming technologies such as Project Nashorn and Java FX 2.0 Respects your time by focusing on practical solutions you can implement in your own code

Mastering advanced features of Java and implement them to build amazing projects Key Features Take advantage of Java's new modularity features to write real-world applications that solve a variety of problems Explore the major concepts introduced with Java 9, including modular programming, HTTP 2.0, API changes, and more Get to grips with tools, techniques and best practices to enhance application development Book Description Java 9 and its new features add to the richness of the language; Java is one of the languages most used by developers to build robust software applications. Java 9 comes with a special emphasis on

modularity with its integration with Jigsaw. This course is your one-stop guide to mastering the language. You'll be provided with an overview and explanation of the new features introduced in Java 9 and the importance of the new APIs and enhancements. Some new features of Java 9 are ground-breaking; if you are an experienced programmer, you will be able to make your enterprise applications leaner by learning these new features. You'll be provided with practical guidance in applying your newly acquired knowledge of Java 9 and further information on future developments of the Java platform. This course will improve your productivity, making your applications faster. Next, you'll go on to implement everything you've learned by building 10 cool projects. You will learn to build an email filter that separates spam messages from all your inboxes, a social media aggregator app that will help you efficiently track various feeds, and a microservice for a client/server note application, to name just a few. By the end of this course, you will be well acquainted with Java 9 features and able to build your own applications and projects. This Learning Path contains the best content from the following two recently published Packt products:

- Mastering Java 9
- Java 9 Programming Blueprints

What you will learn

- Package Java applications as modules using the Java Platform Module System
- Implement process management in Java using the all-new process handling API
- Integrate your applications with third-party services in the cloud
- Interact with mail servers, using JavaMail to build an application that filters spam messages
- Use JavaFX to build rich GUI-based applications, which are an essential element of application development
- Leverage the possibilities provided by the newly introduced Java shell
- Test your application's effectiveness with the JVM harness
- See how Java 9 provides support for the HTTP 2.0 standard

Who this book is for

This learning path is for Java developers who are looking to move a level up and learn how to build robust applications in the latest version of Java.

Use the JavaFX platform to create rich-client Java applications and discover how you can use this powerful Java-based UI platform, which is capable of handling large-scale data-driven business applications for PC as well as mobile and embedded devices. The expert authors cover the new more modular JavaFX 9 APIs, development tools, and best practices and provide code examples that explore the exciting new features provided with JavaFX 9, part of Oracle's new Java 9 release.

Pro JavaFX 9: A Definitive Guide to Building Desktop, Mobile, and Embedded Java Clients also contains engaging tutorials that cover virtually every facet of JavaFX development and reference materials on JavaFX that augment the JavaFX API documentation.

What You'll Learn

- Create a user interface in JavaFX
- Use SceneBuilder to create a user interface
- Build dynamic UI layouts in JavaFX and using the JavaFX UI controls
- Create charts in JavaFX
- Leverage JavaFX languages and markup

Who This Book Is For

Experienced Java programmers looking to learn and leverage JavaFX 9 for rich client-side Java development.

With over 75 million downloads per month, Spring Boot is the most widely used Java framework available. Its ease and power have revolutionized application development from monoliths to microservices. Yet Spring Boot's simplicity can also be confounding. How do developers learn enough to be productive immediately? This practical book shows you how to use this framework to write successful mission-critical applications. Mark Heckler from VMware, the company behind Spring, guides you through Spring Boot's architecture and approach, covering topics such as debugging, testing, and

deployment. If you want to develop cloud native Java or Kotlin applications with Spring Boot rapidly and effectively--using reactive programming, building APIs, and creating database access of all kinds--this book is for you. Learn how Spring Boot simplifies cloud native application development and deployment Build reactive applications and extend communication across the network boundary to create distributed systems Understand how Spring Boot's architecture and approach increase developer productivity and application portability Deploy Spring Boot applications for production workloads rapidly and reliably Monitor application and system health for optimal performance and reliability Debug, test, and secure cloud-based applications painlessly

Are you looking for a deeper understanding of the Java™ programming language so that you can write code that is clearer, more correct, more robust, and more reusable? Look no further! *Effective Java™, Second Edition*, brings together seventy-eight indispensable programmer's rules of thumb: working, best-practice solutions for the programming challenges you encounter every day. This highly anticipated new edition of the classic, Jolt Award-winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition. Bloch explores new design patterns and language idioms, showing you how to make the most of features ranging from generics to enums, annotations to autoboxing. Each chapter in the book consists of several "items" presented in the form of a short, standalone essay that provides specific advice, insight into Java platform subtleties, and outstanding code examples. The comprehensive descriptions and explanations for each item illuminate what to do, what not to do, and why. Highlights include: New coverage of generics, enums, annotations, autoboxing, the for-each loop, varargs, concurrency utilities, and much more Updated techniques and best practices on classic topics, including objects, classes, libraries, methods, and serialization How to avoid the traps and pitfalls of commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries: `java.lang`, `java.util`, and, to a lesser extent, `java.util.concurrent` and `java.io` Simply put, *Effective Java™, Second Edition*, presents the most practical, authoritative guidelines available for writing efficient, well-designed programs.

Master the principles and techniques of multithreaded programming with the Java 8 Concurrency API About This Book Implement concurrent applications using the Java 8 Concurrency API and its new components Improve the performance of your applications or process more data at the same time, taking advantage of all of your resources. Construct real-world examples related to machine learning, data mining, image processing, and client/server environments Who This Book Is For If you are a competent Java developer with a good understanding of concurrency but have no knowledge of how to effectively implement concurrent programs or use streams to make processes more efficient, then this book is for you. What You Will Learn Design concurrent applications by converting a sequential algorithm into a concurrent one

Discover how to avoid all the possible problems you can get in concurrent algorithms Use the Executor framework to manage concurrent tasks without creating threads Extend and modify Executors to adapt their behavior to your needs Solve problems using the divide and conquer technique and the Fork/Join framework Process massive data sets with parallel streams and Map/Reduce implementation Control data-race conditions using concurrent data structures and synchronization mechanisms Test and monitor concurrent applications In Detail Concurrency programming allows several large tasks to be divided into smaller sub-tasks, which are further processed as individual tasks that run in parallel. All the sub-tasks are combined together once the required results are achieved; they are then merged to get the final output. The whole process is very complex. This process goes from the design of concurrent algorithms to the testing phase where concurrent applications need extra attention. Java includes a comprehensive API with a lot of ready-to-use components to implement powerful concurrency applications in an easy way, but with a high flexibility to adapt these components to your needs. The book starts with a full description of design principles of concurrent applications and how to parallelize a sequential algorithm. We'll show you how to use all the components of the Java Concurrency API from basics to the most advanced techniques to implement them in powerful concurrency applications in Java. You will be using real-world examples of complex algorithms related to machine learning, data mining, natural language processing, image processing in client / server environments. Next, you will learn how to use the most important components of the Java 8 Concurrency API: the Executor framework to execute multiple tasks in your applications, the Phaser class to implement concurrent tasks divided into phases, and the Fork/Join framework to implement concurrent tasks that can be split into smaller problems (using the divide and conquer technique). Toward the end, we will cover the new inclusions in Java 8 API, the Map and Reduce model, and the Map and Collect model. The book will also teach you about the data structures and synchronization utilities to avoid data-race conditions and other critical problems. Finally, the book ends with a detailed description of the tools and techniques that you can use to test a Java concurrent application. Style and approach A complete guide implementing real-world examples with algorithms related to machine learning, data mining, and natural language processing in client/server environments. All the examples are explained in a step-by-step approach.

Unleash the power of JavaFX for a wide range of devices JavaFX For Dummies gives you access to an innovativesoftware platform that allows you to create and deliver richInternet applications that can run across a wide variety ofconnected devices. This accessible book highlights the mostimportant features of this powerful graphics platform, giving youthe tools to understand it quickly and easily! No experience withJavaFX? No problem. JavaFX For Dummies has been writtensespecially for newbies and it also serves as a great referenceresource for more experienced

Java developers. Author Doug Lowe has been writing programming books for decades, and he brings his experience and passion to this guide, sharing his expert approach to coding using JavaFX. The book shows you how to work with JavaFX controls, how to enhance your scenic design, and also offers advice on how to make a splash with your programs. Then, the author wraps it all up with extra recommendations and resources to guide you as you move forward. Helps developers quickly learn to take advantage of JavaFX's lightweight, high-performance platform Highlights essential JavaFX features for simple coding that can be rolled out across multiple devices Instructs readers on methods for creating compelling, visually appealing applications Includes recommendations and resources for honing your JavaFX skills With JavaFX For Dummies, you'll be on your way to easier, more efficient coding for a variety of connected devices.

Java Closures and Lambda introduces you to significant new changes to the Java language coming out of what is termed Project Lambda. These new changes make their debut in Java 8, and their highlight is the long-awaited support for lambda expressions in the Java language. You'll learn to write lambda expressions and use them to create functional interfaces and default methods for evolving APIs, among many other uses. The changes in Java 8 are significant. Syntax and usage of the language are changed considerably with the introduction of closures and lambda expressions. This book takes you through these important changes from introduction to mastery. Through a set of clear examples, you'll learn to refactor existing code to take advantage of the new language features. You'll learn what those features can do for you, and when they are best applied. You'll learn to design and write new code having these important new features in mind from the very beginning. Clearly explains the fantastic benefits resulting from Project Lambda Explains the syntax and IDE support for the new features Shows how to streamline your code by bringing some of the benefits of functional programming to the Java language Illustrates parallelism in closures through Stream and Spliterator objects Explains API evolution by adding methods to existing interfaces without breaking existing interface implementations, a technique addressing potential multiple inheritance issues

JavaFX 2.0: Introduction by Example provides a quick start to programming the JavaFX 2.0 platform. JavaFX 2.0 provides a rich set of APIs for use in creating graphically exciting client applications written solely in Java. You get a large set of customizable components that can be skinned using CSS techniques that you already know from doing web development. The platform even includes a web rendering engine enabling you to mix HTML content into your applications. Hardware acceleration means that your applications are fast and snappy, taking full advantage of modern graphics processing support at the hardware level. JavaFX 2.0 opens the door to business applications that look good, are fun to use, that take advantage of the medium to present data of all types—text, audio, video, etc.—in ways that engage the user and lead to increased productivity. Getting started with JavaFX 2.0 is surprisingly easy. You already

have the Java skills. Very likely you know enough of CSS to get by. All that's left is to get a leg up on the API, and that's where JavaFX 2.0: Introduction by Example can help. In this short book, author Carl Dea takes you through a series of engaging, fun-to-work examples that bring you up to speed with the major facets of the platform. Begin with the fundamentals of installing the software and creating a simple interface. Move in progressive steps through the process of developing a working dialog box for an application. Then let the fun begin as you explore images and animations, audio and video, and finally learn to embed JavaFX applications in a web page as well as embedding HTML5 content within an application. At the end of this book you'll have a good grasp of what JavaFX is all about, and you'll be ready to begin your journey towards mastery of the platform. Entirely example-based Focused on practical applications Full of working code for you to adapt and extend

For nearly five years, one book has served as the definitive reference to Java for all serious developers: The Java Language Specification, by James Gosling, Bill Joy, and Guy Steele. Now, these world-renowned Java authorities (along with new co-author Gilad Bracha) have delivered a monumental update. This completely revised Second Edition covers the Java 2 Platform Standard Edition Version 1.3 with unprecedented depth and precision, offering the invaluable insights of Java's creators to every developer. There is no better source for learning everything about the Syntax and Semantics of the Java programming language. Developers will turn to this book again and again.

The time to upgrade to Java 8 is NOW, and this is the book for you. It is designed for experienced Java programmers who need to upgrade to Java 8 FAST. It covers the most important features and enhancements in the latest version of Java, including lambda expressions, streams, the new Date-Time API, JavaFX 8 and Nashorn.

A step by step guide that will help you learn the Java programming language KEY FEATURES ?Get familiar with the features in Java 8 And Java 9 ?Understand the working of various Java APIs ?Learn Modular Programming with Java 9 ?Learn to use features such as Lambda, Time API, and Stream API. ?Learn how to access databases from a Java application DESCRIPTION 100+ Solutions in Java is an easy-to-understand step-by-step guide that helps you develop applications using Java 8 and Java 9. It is for everyone, from beginners to professionals, who wish to begin development in Java. The content is designed as per increasing complexity and is explained in detail with appropriate examples. This book follows a practical approach by providing ample examples and assignments for you to test your understanding of each concept. You will also get familiar with the important features introduced in Java 10. This book is a "beginner's guide" that will help you upskill your knowledge in Java. By the end of the book, you will know the different features introduced in Java over the years and will learn to implement these features to develop real-world applications. WHAT YOU WILL LEARN ?Work with the newly introduced features in Java 8 And Java 9 ?Get to know in-depth about the Java Stream API ?Learn how to work with Java regular expressions ?Get an overview of Inheritance and Interfaces in Java ?Get familiar with Design Patterns in Java WHO THIS BOOK IS FOR This book is for Developers and Technical

Specialists who are interested in learning Java. Prior knowledge of programming languages such as C, C++, or Python and any DBMS such as SQL Server, MySQL will be an added advantage. TABLE OF CONTENTS 1. Introduction to Java 2. Java Programming Constructs 3. Java Application Components 4. Java Reference Types 5. Subclasses and Interfaces 6. Exceptions and Regular Expressions 7. Collections and Stream API 8. Generics and Time API 9. File Manipulation in Java 10. Threads and JDBC 11. Design Patterns and I18N 12. More about JDK 8, 9 and 10

The Java® Tutorial, Fifth Edition, is based on Release 7 of the Java Platform Standard Edition. This revised and updated edition introduces the new features added to the platform, including a section on NIO.2, the new file I/O API, and information on migrating legacy code to the new API. The deployment coverage has also been expanded, with new chapters such as “Doing More with Rich Internet Applications” and “Deployment in Depth,” and a section on the fork/join feature has been added to the chapter on concurrency. Information reflecting Project Coin developments, including the new try-with-resources statement, the ability to catch more than one type of exception with a single exception handler, support for binary literals, and diamond syntax, which results in cleaner generics code, has been added where appropriate. The chapters covering generics, Java Web Start, and applets have also been updated. In addition, if you plan to take one of the Java SE 7 certification exams, this guide can help. A special appendix, “Preparing for Java Programming Language Certification,” lists the three exams available, details the items covered on each exam, and provides cross-references to where more information about each topic appears in the text. All of the material has been thoroughly reviewed by members of Oracle Java engineering to ensure that the information is accurate and up to date.

Java 8 is a giant step forward for the Java language. In Project Lambda, Java gets a new closure syntax (lambda expressions), method-references, and default and static methods on interfaces. It manages to add many of the features of functional languages without losing the clarity and simplicity Java developers have come to expect. In addition, many of the existing Java core library classes have been enhanced with the new Streams API. This book will help you understand Java 8, including: Project Lambda, the new Date-Time API, Streams, default methods, the Nashorn Javascript engine, and more.

JavaFX is a software platform to create and deliver rich Internet applications (RIAs) that can run across a wide variety of devices. JavaFX Essentials will help you to design and build high performance JavaFX 8-based applications that run on a variety of devices. Starting with the basics of the framework, it will take you all the way through creating your first working application to discovering the core and main JavaFX 8 features, then controlling and monitoring your outside world. The examples provided illustrate different JavaFX and Java SE 8 features. This guide is an invaluable tutorial if you are planning to develop and create JavaFX 8 applications to run on a variety of devices and platforms.

This book concisely introduces Java 8's most valuable new features, including lambda expressions (closures) and streams. If you're an experienced Java programmer, the author's practical insights and sample code will help you quickly take advantage of these and other Java language and platform improvements.

Majority of introductory courses of the object oriented programming presents a number of object constructions and syntax rules in

certain programming language. However, mostly they do not illustrate the explained subject matter on the development of some non-trivial program, which would contain at least 20 mutually connected and cooperating classes. This book tries to fill this gap. It should serve as a basis for repeating the lessons and, at the same time, as a guide leading the students step by step through the development of the text conversation game (adventure), which should correspond to a set of conditions. Simultaneously it should help them to learn how to work with external libraries and frameworks. In the explanation, the passages describing what should be solved alternate with those going through the theory, how similar problem classes are solved, and with those entering the real steps for solving the assigned problem. The application described in this book as well as the framework on which the application stands can be a reasonable inspiration for teachers who search an example for exercise not only at universities but also at a number of secondary schools teaching programming.

The deep descriptions are provided for Lambdas and Lambda expressions. A good starting point especially for those who are still new to lambdas and functional programming as a whole. All the complicated concepts have been explained in details, from type inference, target types to functional interfaces and how and where should we use Lambda expressions.

Currently used at many colleges, universities, and high schools, this hands-on introduction to computer science is ideal for people with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a computer scientist. You'll learn how to program—a useful skill by itself—but you'll also discover how to use programming as a means to an end. Authors Allen Downey and Chris Mayfield start with the most basic concepts and gradually move into topics that are more complex, such as recursion and object-oriented programming. Each brief chapter covers the material for one week of a college course and includes exercises to help you practice what you've learned. Learn one concept at a time: tackle complex topics in a series of small steps with examples Understand how to formulate problems, think creatively about solutions, and write programs clearly and accurately Determine which development techniques work best for you, and practice the important skill of debugging Learn relationships among input and output, decisions and loops, classes and methods, strings and arrays Work on exercises involving word games, graphics, puzzles, and playing cards

By emphasizing the application of computer programming not only in success stories in the software industry but also in familiar scenarios in physical and biological science, engineering, and applied mathematics, Introduction to Programming in Java takes an interdisciplinary approach to teaching programming with the Java(TM) programming language. Interesting applications in these fields foster a foundation of computer science concepts and programming skills that students can use in later courses while demonstrating that computation is an integral part of the modern world. Ten years in development, this book thoroughly covers the field and is ideal for traditional introductory programming courses. It can also be used as a supplement or a main text for courses that integrate programming with mathematics, science, or engineering.

JavaFX 8: Introduction by Example shows you how to use your existing Java skills to create graphically exciting client applications with the JavaFX 8 platform. The book is a new and much improved edition of JavaFX 2.0: Introduction by Example, taking you

through a series of engaging, fun-to-work examples that bring you up to speed on the major facets of the platform. It will help you to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. Entirely example-based, JavaFX 8: Introduction by Example begins with the fundamentals of installing the software and creating a simple interface. From there, you'll move in progressive steps through the process of developing applications using JavaFX's standard drawing primitives. You'll then explore images, animations, media, and web. This new edition incorporates the changes resulting from the switch to Java 8 SDK. It covers advanced topics such as custom controls, JavaFX 3D, gesture devices, and embedded systems. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Entirely example-based Filled with fun and practical code examples Covers all that's new in Java 8 relating to JavaFX such as Lambda expressions and Streams Covers gesture devices, 3D display, embedded systems, and other advanced topics

From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

JavaFX 8: Introduction by Example shows you how to use your existing Java skills to create graphically exciting client applications with the JavaFX 8 platform. The book is a new and much improved edition of JavaFX 2.0: Introduction by Example, taking you through a series of engaging, fun-to-work examples that bring you up to speed on the major facets of the platform. It will help you to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. Entirely example-based, JavaFX 8: Introduction by Example begins with the fundamentals of installing the software and creating a simple interface. From there, you'll move in progressive steps through the process of developing applications using JavaFX's standard drawing primitives. You'll then explore images, animations, media, and web. This new edition incorporates the changes resulting from the switch to Java 8 SDK. It covers advanced topics such as custom controls, JavaFX 3D, gesture devices, and embedded systems. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Entirely example-based Filled with fun and practical code examples Covers

all that's new in Java 8 relating to JavaFX such as Lambda expressions and Streams Covers gesture devices, 3D display, embedded systems, and other advanced topics What you'll learn Install JavaFX 8 and configure your environment Work with touch-based interfaces such as in Windows 8 Interpret gesture-based events the Leap Motion Controller and similar hardware Integrate JavaFX with embedded systems such as Arduino and Raspberry Pi Develop modern GUI implementations of business forms Work with shapes, color, text, and animation Add audio and video to your projects Create custom controls using SVG and Canvas Learn to style a user-interface via CSS Communicate bidirectionally using Java and Javascript with HTML5 Who this book is for JavaFX 8: Introduction by Example is for Java developers who are interested in developing rich, client-side applications to run on PCs, phones, tablets, Arduino controllers, the Raspberry Pi, and more. Whether enterprise developer or hobbyist, anyone wanting to develop a polished user-interface from Java will find much to like in this book. Table of Contents1. Getting started 2. JavaFX Fundamentals 3. Java 8 Lambda Expressions 4. Layout & UI Controls 5. Graphics with JavaFX 6. Custom Controls 7. Media with JavaFX 8. JavaFX on the Web 9. JavaFX 3D 10. JavaFX and Arduino 11. JavaFX on the Raspberry Pi 12. Gesture-based Interfaces 13. Appendix A. References

240+ Real Java Interview Questions on Core Java, Threads and Concurrency, Algorithms, Data Structures, Design Patterns, Spring, Hibernate, Puzzles & Sample Interview Questions for Investment Banks, HealthCare IT, Startups, Product and Service based companies. This book is ideal if you are preparing for Java Job Interview in Indian Market. Topics Covered in eBook Core Java (Collections, Concurrency & multi-threading, Lambda, Stream & Generics) Hibernate & Spring Problems Object Oriented Design Problems. Data structure and Algorithm problems This book tries to fill in the knowledge gaps for Java developers appearing for interviews in investment banking domain (RBS, BlackRock, UBS, Morgan Stanley, CitiGroup, Credit Suisse, Barclays Capital, Goldman, J.P. Morgan, Bank of America & Nomura, HSBC), product company (Oracle, Adobe, Markit), or service sector companies (Wipro, Infosys, HCL, Sapient, TCS). This book contains collection of Java related questions which are considered important for the interview preparation. A fair try has been given to address the Question, otherwise references has been provided for in depth study.

Learn JavaFX 8 shows you how to start developing rich-client desktop applications using your Java skills and provides comprehensive coverage of JavaFX 8's features. Each chapter starts with an introduction to the topic at hand, followed by a step-by-step discussion of the topic with small snippets of code. The book contains numerous figures aiding readers in visualizing the GUI that is built at every step in the discussion. The book starts with an introduction to JavaFX and its history. It lists the system requirements and the steps to start developing JavaFX applications. It shows you how to create a Hello World application in JavaFX, explaining every line of code in the process. Later in the book, author Kishori Sharan discusses advanced topics such as 2D and 3D graphics, charts, FXML, advanced controls, and printing. Some of the advanced controls such as TableView, TreeTableView and WebView are covered at length in separate chapters. This book provides complete and comprehensive coverage of JavaFX 8 features; uses an incremental approach to teach JavaFX, assuming no prior GUI knowledge; includes code

snippets, complete programs, and pictures; covers MVC patterns using JavaFX; and covers advanced topics such as FXML, effects, transformations, charts, images, canvas, audio and video, DnD, and more. So, after reading and using this book, you'll come away with a comprehensive introduction to the JavaFX APIs as found in the new Java 8 platform.

Build a variety of real-world applications by taking advantage of the newest features of Java 9 About This Book See some of the new features of Java 9 and be introduced to parts of the Java SDK This book provides a set of diverse, interesting projects that range in complexity from fairly simple to advanced and cover HTTP 2.0 Take advantage of Java's new modularity features to write real-world applications that solve a variety of problems Who This Book Is For This book is for Java developers who are already familiar with the language. Familiarity with more advanced topics, such as network programming and threads, would be helpful, but is not assumed. What You Will Learn Learn how to package Java applications as modules by using the Java Platform Module System Implement process management in Java by using the all-new process handling API Integrate your applications with third-party services in the cloud Interact with mail servers using JavaMail to build an application that filters spam messages Learn to use JavaFX to build rich GUI based applications, which are an essential element of application development Write microservices in Java using platform libraries and third-party frameworks Integrate a Java application with MongoDB to build a cloud-based note taking application In Detail Java is a powerful language that has applications in a wide variety of fields. From playing games on your computer to performing banking transactions, Java is at the heart of everything. The book starts by unveiling the new features of Java 9 and quickly walks you through the building blocks that form the basis of writing applications. There are 10 comprehensive projects in the book that will showcase the various features of Java 9. You will learn to build an email filter that separates spam messages from all your inboxes, a social media aggregator app that will help you efficiently track various feeds, and a microservice for a client/server note application, to name a few. The book covers various libraries and frameworks in these projects, and also introduces a few more frameworks that complement and extend the Java SDK. Through the course of building applications, this book will not only help you get to grips with the various features of Java 9, but will also teach you how to design and prototype professional-grade applications with performance and security considerations. Style and approach This is a learn-as-you-build practical guide to building full-fledged applications using Java 9. With a project-based approach, we'll improve your Java skills. You will experience a variety of solutions to problems with Java.

In Pro JavaFX 8 expert authors show you how to use the JavaFX platform to create rich-client Java applications. You'll discover how you can use this powerful Java-based UI platform, which is capable of handling large-scale data-driven business applications for PC as well as now mobile and embedded devices. Covering the JavaFX API, development tools, and best practices, this book provides code examples that explore the exciting new features provided with JavaFX 8 which comes as part of Oracle's new Java (SE) 8 release. This book also contains engaging tutorials that cover virtually every facet of JavaFX development and reference materials on JavaFX that augment the JavaFX API documentation. After reading and using this book, you'll have the authoritative knowledge that should give you an edge in your next JavaFX-based application projects for your job or your clients.

If you're a developer with core Java SE skills, this hands-on book takes you through the language changes in Java 8 triggered by the addition of lambda expressions. You'll learn through code examples, exercises, and fluid explanations how these anonymous functions will help you write simple, clean, library-level code that solves business problems. Lambda expressions are a fairly simple change to Java, and the first part of the book shows you how to use them properly. Later chapters show you how lambda functions help you improve performance with parallelism, write simpler concurrent code, and model your domain more accurately, including building better DSLs. Use exercises in each chapter to help you master lambda expressions in Java 8 quickly Explore streams, advanced collections, and other Java 8 library improvements Leverage multicore CPUs and improve performance with data parallelism Use techniques to "lambdify" your existing codebase or library code Learn practical solutions for lambda expression unit testing and debugging Implement SOLID principles of object-oriented programming with lambdas Write concurrent applications that efficiently perform message passing and non-blocking I/O This book introduces software developers to Java, the object-oriented programming language of choice for Internet development.

Summary Manning's bestselling Java 8 book has been revised for Java 9! In *Modern Java in Action*, you'll build on your existing Java language skills with the newest features and techniques. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's time to upgrade your skills and meet these challenges head on! About the Book *Modern Java in Action* connects new features of the Java language with their practical applications. Using crystal-clear examples and careful attention to detail, this book respects your time. It will help you expand your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System, explore new approaches to concurrency, and learn how functional concepts can help you write code that's easier to read and maintain. What's inside Thoroughly revised edition of Manning's bestselling Java 8 in Action New features in Java 8, Java 9, and beyond Streaming data and reactive programming The Java Module System About the Reader Written for developers familiar with core Java features. About the Author Raoul-Gabriel Urma is CEO of Cambridge Spark. Mario Fusco is a senior software engineer at Red Hat. Alan Mycroft is a University of Cambridge computer science professor; he cofounded the Raspberry Pi Foundation. Table of Contents PART 1 - FUNDAMENTALS Java 8, 9, 10, and 11: what's happening? Passing code with behavior parameterization Lambda expressions PART 2 - FUNCTIONAL-STYLE DATA PROCESSING WITH STREAMS Introducing streams Working with streams Collecting data with streams Parallel data processing and performance PART 3 - EFFECTIVE PROGRAMMING WITH STREAMS AND LAMBDA Collection API enhancements Refactoring, testing, and debugging Domain-specific languages using lambdas PART 4 - EVERYDAY JAVA Using Optional as a better alternative to null New Date and Time API Default methods The Java Module System PART 5 - ENHANCED JAVA CONCURRENCY Concepts behind CompletableFuture and reactive programming CompletableFuture: composable asynchronous programming Reactive programming PART 6 - FUNCTIONAL PROGRAMMING AND FUTURE JAVA EVOLUTION Thinking functionally Functional programming techniques Blending OOP and FP: Comparing Java and Scala Conclusions and where next for Java The Java EE 7 Tutorial: Volume 2, Fifth Edition, is a task-oriented, example-driven guide to developing enterprise applications for the Java Platform, Enterprise Edition 7 (Java EE 7). Written by members of the Java EE documentation team at Oracle, this book provides new and intermediate Java programmers with a deep understanding of the platform. This guide includes descriptions of platform features and provides instructions for using the latest versions of NetBeans IDE and GlassFish Server Open Source Edition. The book introduces Enterprise

JavaBeans components, the Java Persistence API, the Java Message Service (JMS) API, Java EE security, transactions, resource adapters, Java EE Interceptors, Batch Applications for the Java Platform, and Concurrency Utilities for Java EE. The book culminates with three case studies that illustrate the use of multiple Java EE 7 APIs.

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The introduction of functional programming concepts in Java SE 8 was a drastic change for this venerable object-oriented language. Lambda expressions, method references, and streams fundamentally changed the idioms of the language, and many developers have been trying to catch up ever since. This cookbook will help. With more than 70 detailed recipes, author Ken Kousen shows you how to use the newest features of Java to solve a wide range of problems. For developers comfortable with previous Java versions, this guide covers nearly all of Java SE 8, and includes a chapter focused on changes coming in Java 9. Need to understand how functional idioms will change the way you write code? This cookbook—chock full of use cases—is for you. Recipes cover: The basics of lambda expressions and method references Interfaces in the java.util.function package Stream operations for transforming and filtering data Comparators and Collectors for sorting and converting streaming data Combining lambdas, method references, and streams Creating instances and extract values from Java's Optional type New I/O capabilities that support functional streams The Date-Time API that replaces the legacy Date and Calendar classes Mechanisms for experimenting with concurrency and parallelism

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