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Java APIs, Extensions and Libraries 2018-04-06 this book completes the apress java learning journey and is a comprehensive approach to learning java apis extensions and modules such as java ee integration mobile java modules javafx and jdbc in this book you ll learn how to build user interfaces with swing and javafx as well as how to write network programs with the new java 9 and much more java apis extensions and libraries is for java programmers who are familiar with the fundamentals of the java language and java programming who are now ready to call upon the power of extended java functionality available from the huge array of java apis extensions and libraries after reading and learning from this book you ll be ready to become a professional java programmer what you ll learn extend your java skills beyond the fundamental object oriented concepts and core language features apply java swing for building java front ends get started with java network programming connect to databases and access data from java programs using the jdbc api work with javafx rmi remote method invocation and jni java native interface use the new scripting features of java who this book is for java programmers who are familiar with the fundamentals of the java language and java programming

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structures of java such as data structures and algorithms that will serve as the building blocks for your apps you will also delve into core programming topics that will assist you with error handling debugging and testing your apps as you progress you ll move on to advanced topics such as java libraries database management and network programming which will hone your skills in building professional grade apps further on you ll understand how to create a graphic user interface using javafx and learn to build scalable apps by taking advantage of reactive and functional programming by the end of this book you ll not only be well versed with java 10 11 and 12 but also gain a perspective into the future of this language and software development in general what you will learnlearn and apply object oriented principlesgain insights into data structures and understand how they are used in javaexplore multithreaded asynchronous functional and reactive programmingadd a user friendly graphic interface to your applicationfind out what streams are and how they can help in data processing discover the importance of microservices and use them to make your apps robust and scalableexplore java design patterns and best practices to solve everyday problemslearn techniques and idioms for writing high quality java codewho this book is for students software developers or anyone looking to learn new skills or even a language will find this book useful although this book is for beginners professional programmers can benefit from it too previous knowledge of java or any programming language is not required

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although to ensure that skills are not confined to one environment the fundamentals of the java compiler and run time are also explained additionally coverage of the ant tool will equip the reader with the skills to automatically build test and deploy applications independent of an ide topics and features presents the most up to date information on java including java 14 examines the key theme of unit testing introducing the junit 5 testing framework to emphasize the importance of unit testing in modern software development describes the eclipse ide the most popular open source java ide and explains how java can be run from the command line includes coverage of the ant build tool contains numerous code examples and exercises throughout provides downloadable source code self test questions powerpoint slides and other supplementary material at the website foundjava com this hands on classroom tested textbook reference is ideal for undergraduate students on introductory and intermediate courses on programming with java professional software developers will also find this an excellent self study guide refresher on the topic dr david parsons is national postgraduate director at the mind lab auckland new zealand he has been teaching programming in both academia and industry since the 1980s and writing about it since the 1990s

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Object-Orientation, Abstraction, and Data Structures Using Scala

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