

# Java™ Platform Standard Ed. 7 DRAFT ea-b141

## All Classes

### Packages

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## All Classes

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## Java™ Platform, Standard Edition 7 API Specification

This document is the API specification for the Java™ Platform, Standard Edition.

See: [Description](#)

## Packages

| Package                               | Description  |
|---------------------------------------|--|
| <a href="#">java.applet</a>           | Provides the classes necessary to create an applet and the classes an applet uses to communicate with its applet context.  |
| <a href="#">java.awt</a>              | Contains all of the classes for creating user interfaces and for painting graphics and images.   |
| <a href="#">java.awt.color</a>        | Provides classes for color spaces.   |
| <a href="#">java.awt.datatransfer</a> | Provides interfaces and classes for transferring data between and within applications.   |
| <a href="#">java.awt.dnd</a>          | Drag and Drop is a direct manipulation gesture found in many Graphical User Interface systems that provides a mechanism to transfer information between two entities logically associated with presentation elements in the GUI. |
| <a href="#">java.awt.event</a>        | Provides interfaces and classes for dealing with different types of events fired by AWT components.  |
| <a href="#">java.awt.font</a>         | Provides classes and interface relating to fonts.  |

# Java Api 7 Documentation

**S Marginson**



## Java Api 7 Documentation:

**Introduction to Middleware** Letha Hughes Etzkorn,2017-06-12 A stereotype of computer science textbooks is that they are dry boring and sometimes even intimidating As a result they turn students interests off from the subject matter instead of enticing them into it This textbook is the opposite of such a stereotype The author presents the subject matter in a refreshing story telling style and aims to bring the Internet generation of students closer to her stories Yingcai Xiao The University of Akron Introduction to Middleware Web Services Object Components and Cloud Computing provides a comparison of different middleware technologies and the overarching middleware concepts they are based on The various major paradigms of middleware are introduced and their pros and cons are discussed This includes modern cloud interfaces including the utility of Service Oriented Architectures The text discusses pros and cons of RESTful vs non RESTful web services and also compares these to older but still heavily used distributed object component middleware The text guides readers to select an appropriate middleware technology to use for any given task and to learn new middleware technologies as they appear over time without being greatly overwhelmed by any new concept The book begins with an introduction to different distributed computing paradigms and a review of the different kinds of architectures architectural styles patterns and properties that various researchers have used in the past to examine distributed applications and determine the quality of distributed applications Then it includes appropriate background material in networking and the web security and encoding necessary to understand detailed discussion in this area The major middleware paradigms are compared and a comparison methodology is developed Readers will learn how to select a paradigm and technology for a particular task after reading this text Detailed middleware technology review sections allow students or industry practitioners working to expand their knowledge to achieve practical skills based on real projects so as to become well functional in that technology in industry Major technologies examined include RESTful web services RESTful cloud interfaces such as OpenStack AWS EC2 interface CloudStack AJAX JAX RS ASP NET MVC and ASP NET Core non RESTful SOAP and WSDL based web services JAX WS Windows Communication Foundation distributed objects components Enterprise Java Beans NET Remoting CORBA The book presents two projects that can be used to illustrate the practical use of middleware and provides implementations of these projects over different technologies This versatile and class tested textbook is suitable depending on chapters selected for undergraduate or first year graduate courses on client server architectures middleware and cloud computing web services and web programming

*Mastering Java through Biology* Peter Garst,2014-07-22 [Scala: Guide for Data Science Professionals](#) Pascal Bugnion,Arun Manivannan,Patrick R. Nicolas,2017-02-24 Scala will be a valuable tool to have on hand during your data science journey for everything from data cleaning to cutting edge machine learning About This Book Build data science and data engineering solutions with ease An in depth look at each stage of the data analysis process from reading and collecting data to distributed analytics Explore a broad variety of data processing machine learning and genetic

algorithms through diagrams mathematical formulations and source code Who This Book Is For This learning path is perfect for those who are comfortable with Scala programming and now want to enter the field of data science Some knowledge of statistics is expected What You Will Learn Transfer and filter tabular data to extract features for machine learning Read clean transform and write data to both SQL and NoSQL databases Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Load data from HDFS and HIVE with ease Run streaming and graph analytics in Spark for exploratory analysis Bundle and scale up Spark jobs by deploying them into a variety of cluster managers Build dynamic workflows for scientific computing Leverage open source libraries to extract patterns from time series Master probabilistic models for sequential data In Detail Scala is especially good for analyzing large sets of data as the scale of the task doesn't have any significant impact on performance Scala's powerful functional libraries can interact with databases and build scalable frameworks resulting in the creation of robust data pipelines The first module introduces you to Scala libraries to ingest store manipulate process and visualize data Using real world examples you will learn how to design scalable architecture to process and model data starting from simple concurrency constructs and progressing to actor systems and Apache Spark After this you will also learn how to build interactive visualizations with web frameworks Once you have become familiar with all the tasks involved in data science you will explore data analytics with Scala in the second module You'll see how Scala can be used to make sense of data through easy to follow recipes You will learn about Bokeh bindings for exploratory data analysis and quintessential machine learning with algorithms with Spark ML library You'll get a sufficient understanding of Spark streaming machine learning for streaming data and Spark graphX Armed with a firm understanding of data analysis you will be ready to explore the most cutting edge aspect of data science machine learning The final module teaches you the A to Z of machine learning with Scala You'll explore Scala for dependency injections and implicits which are used to write machine learning algorithms You'll also explore machine learning topics such as clustering dimensionality reduction Naive Bayes Regression models SVMs neural networks and more This learning path combines some of the best that Packt has to offer into one complete curated package It includes content from the following Packt products Scala for Data Science Pascal Bugnion Scala Data Analysis Cookbook Arun Manivannan Scala for Machine Learning Patrick R. Nicolas Style and approach A complete package with all the information necessary to start building useful data engineering and data science solutions straight away It contains a diverse set of recipes that cover the full spectrum of interesting data analysis tasks and will help you revolutionize your data analysis skills using Scala

*Scala: Applied Machine Learning* Pascal Bugnion, Patrick R. Nicolas, Alex Kozlov, 2017-02-23 Leverage the power of Scala and master the art of building improving and validating scalable machine learning and AI applications using Scala's most advanced and finest features About This Book Build functional type safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine

learning algorithms Experiment with different techniques evaluate their benefits and limitations using real world financial applications Get to know the best practices to incorporate new Big Data machine learning in your data driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create validate and apply machine learning algorithms It will also benefit software developers with a background in Scala programming who want to apply machine learning What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo Protobuf Avro and AvroParquet Construct reliable and robust data pipelines and manage data in a data driven enterprise Implement scalable model monitoring and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you Scala for Data Science the first module in this course is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed building data science and data engineering solutions The second course Scala for Machine Learning guides you through the process of building AI applications with diagrams formal mathematical notation source code snippets and useful tips A review of the Akka framework and Apache Spark clusters concludes the tutorial The next module Mastering Scala Machine Learning is the final step in this course It will take your knowledge to next level and help you use the knowledge to build advanced applications such as social media mining intelligent news portals and more After a quick refresher on functional programming concepts using REPL you will see some practical examples of setting up the development environment and tinkering with data We will then explore working with Spark and MLlib using k means and decision trees By the end of this course you will be a master at Scala machine learning and have enough expertise to be able to build complex machine learning projects using Scala 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 Scala for Data Science Pascal Bugnion Scala for Machine Learning Patrick Nicolas Mastering Scala Machine Learning Alex Kozlov Style and approach A tutorial with complete examples this course will give you the tools to start building useful data engineering and data science solutions straightaway This course provides practical examples from the field on how to correctly tackle data analysis problems particularly for modern Big Data datasets **Pentaho Data Integration Cookbook** Alex Meadows, Adrián Sergio Pulvirenti, María Carina Roldán, 2013-12-02 Pentaho Data Integration Cookbook Second Edition is written in a cookbook format presenting examples in the style of recipes This allows you to go directly to your topic of interest or follow topics throughout a chapter to gain a thorough in depth knowledge Pentaho Data Integration Cookbook Second Edition is designed

for developers who are familiar with the basics of Kettle but who wish to move up to the next level It is also aimed at advanced users that want to learn how to use the new features of PDI as well as and best practices for working with Kettle

**Computational Science and Its Applications -- ICCSA 2013** Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Maria Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected The 46 papers included in the five general tracks are organized in the following topical sections computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality

**Composability, Comprehensibility and Correctness of Working Software** Zoltán Porkoláb, Viktória Zsók, 2023-10-17 This book constitutes the revised selected papers of the 8th Summer School CEFP 2019 held in Budapest Hungary during June 2019 The 7 full papers and the 4 short papers included in this volume were carefully reviewed and selected The lectures cover various programming subjects with a focus on composability comprehensibility and correctness of working software

*OCA Java SE 7 Programmer I Study Guide (Exam 1Z0-803)* Edward G. Finegan, Robert Liguori, 2012-10-09 The definitive Oracle Press guide to the latest release of this entry level certification for Java programmers now an Oracle Certified Associate exam

Scala for Data Science Pascal Bugnion, 2016-01-28 Leverage the power of Scala with different tools to build scalable robust data science applications About This Book A complete guide for scalable data science solutions from data ingestion to data visualization Deploy horizontally scalable data processing pipelines and take advantage of web frameworks to build engaging visualizations Build functional type safe routines to interact with relational and NoSQL databases with the help of tutorials and examples provided Who This Book Is For If you are a Scala developer or data scientist or if you want to enter the field of data science then this book will give you all the tools you need to implement data science solutions What You Will Learn Transform and filter tabular data to extract features for machine learning Implement your own algorithms or take advantage of MLlib's extensive suite of models to build distributed machine learning pipelines Read transform and write data to both SQL and NoSQL databases in a functional manner Write robust routines to query web APIs Read data from web APIs such as the GitHub or Twitter API Use Scala to interact with MongoDB which offers high performance and helps to store large data sets with uncertain query requirements Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive In Detail Scala is a

multi paradigm programming language it supports both object oriented and functional programming and scripting language used to build applications for the JVM Languages such as R Python Java and so on are mostly used for data science It is particularly good at analyzing large sets of data without any significant impact on performance and thus Scala is being adopted by many developers and data scientists Data scientists might be aware that building applications that are truly scalable is hard Scala with its powerful functional libraries for interacting with databases and building scalable frameworks will give you the tools to construct robust data pipelines This book will introduce you to the libraries for ingesting storing manipulating processing and visualizing data in Scala Packed with real world examples and interesting data sets this book will teach you to ingest data from flat files and web APIs and store it in a SQL or NoSQL database It will show you how to design scalable architectures to process and modelling your data starting from simple concurrency constructs such as parallel collections and futures through to actor systems and Apache Spark As well as Scala s emphasis on functional structures and immutability you will learn how to use the right parallel construct for the job at hand minimizing development time without compromising scalability Finally you will learn how to build beautiful interactive visualizations using web frameworks This book gives tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed with building data science and data engineering solutions Style and approach A tutorial with complete examples this book will give you the tools to start building useful data engineering and data science solutions straightaway

*Advanced Information Systems Engineering* Schahram Dustdar, Eric Yu, Camille Salinesi, Dominique Rieu, Vik Pant, 2020-06-02 This book constitutes the refereed proceedings of the 32nd International Conference on Advanced Information Systems Engineering CAiSE 2020 held in Grenoble France in June 2020 The 33 full papers presented in this volume were carefully reviewed and selected from 185 submissions The book also contains one invited talk in full paper length The papers were organized in topical sections named distributed applications AI and big data in IS process mining and analysis requirements and modeling and information systems engineering Abstracts on the CAiSE 2020 tutorials can be found in the back matter of the volume The conference was held virtually due to the COVID 19 pandemic

**Building Bioinformatics Solutions** Conrad Bessant, Darren Oakley, Ian Shadforth, 2014-01-16 Bioinformatics encompasses a broad and ever changing range of activities involved with the management and analysis of data from molecular biology experiments Despite the diversity of activities and applications the basic methodology and core tools needed to tackle bioinformatics problems is common to many projects This unique book provides an invaluable introduction to three of the main tools used in the development of bioinformatics software Perl R and MySQL and explains how these can be used together to tackle the complex data driven challenges that typify modern biology These industry standard open source tools form the core of many bioinformatics projects both in academia and industry The methodologies introduced are platform independent and all the examples that feature have been tested on Windows Linux and Mac OS Building Bioinformatics Solutions is suitable for

graduate students and researchers in the life sciences who wish to automate analyses or create their own databases and web based tools No prior knowledge of software development is assumed Having worked through the book the reader should have the necessary core skills to develop computational solutions for their specific research programmes The book will also help the reader overcome the inertia associated with penetrating this field and provide them with the confidence and understanding required to go on to develop more advanced bioinformatics skills

*Java SE8 for Programmers* Paul J. Deitel, Harvey Deitel, 2014-03-29 The professional programmer's Deitel guide to Java SE 7 and SE 8 Java 8 development with the powerful Java platform Written for programmers with a background in high level language programming this book applies the Deitel signature live code approach to teaching programming and explores the Java language and Java APIs in depth The book presents concepts in the context of fully tested programs complete with syntax shading code highlighting line by line code walkthroughs and program outputs The book features hundreds of complete Java programs with thousands of lines of proven Java code and hundreds of tips that will help you build robust applications Start with an introduction to Java using an early classes and objects approach then rapidly move on to more advanced topics including GUI graphics exception handling lambdas streams functional interfaces object serialization concurrency generics generic collections JDBC and more You'll enjoy the Deitels classic treatment of object oriented programming and the object oriented design ATM case study including a complete Java implementation When you're finished you'll have everything you need to build industrial strength object oriented Java SE 7 and SE 8 Java 8 applications

Practical Example Rich Coverage of Java SE 7 and SE 8 Java 8 Lambdas Streams Functional Interfaces with Default and Static Methods Classes Objects Encapsulation Inheritance Polymorphism Interfaces Swing and JavaFX GUIs Graphics Integrated Exception Handling Files Streams Object Serialization Multithreading and Concurrency for Optimal Multi Core Performance Generics and Generic Collections Database JDBC SQL and JavaDB Using the Debugger and the API Docs Industrial Strength Object Oriented Design ATM Case Study and more Visit [www.deitel.com](http://www.deitel.com) Download code examples For information on Deitel's Dive Into Series programming training courses delivered at organizations worldwide visit [www.deitel.com/training](http://www.deitel.com/training) or write to [deitel@deitel.com](mailto:deitel@deitel.com) Join the Deitel social networking communities on Facebook at [facebook.com/DeitelFan](https://facebook.com/DeitelFan) Twitter [deitel](https://twitter.com/deitel) Google+ at [google.com/DeitelFan](https://google.com/DeitelFan) LinkedIn at [bit.ly/DeitelLinkedIn](https://bit.ly/DeitelLinkedIn) YouTube at [youtube.com/user/DeitelTV](https://youtube.com/user/DeitelTV) Subscribe to the Deitel Buzz Online e-mail newsletter at [www.deitel.com/newsletter/subscribe.html](http://www.deitel.com/newsletter/subscribe.html)

*Core Java Volume I--Fundamentals* Cay S. Horstmann, 2012-11-27 Fully updated to reflect Java SE 7 language changes Core Java Volume I Fundamentals Ninth Edition is the definitive guide to the Java platform Designed for serious programmers this reliable unbiased no nonsense tutorial illuminates key Java language and library features with thoroughly tested code examples As in previous editions all code is easy to understand reflects modern best practices and is specifically designed to help jumpstart your projects Volume I quickly brings you up to speed on Java SE 7 core language enhancements including the diamond operator improved resource handling and catching of multiple

exceptions All of the code examples have been updated to reflect these enhancements and complete descriptions of new SE 7 features are integrated with insightful explanations of fundamental Java concepts You ll learn all you need to be productive with The Java programming environment Objects classes and inheritance Interfaces and inner classes Reflection and proxies Graphics programming Event handling and the event listener model Swing based user interface components Application and applet deployment Exceptions logging assertions and debugging Generic programming Collections Concurrency and more For detailed coverage of advanced features including the new API for file input output and enhancements to the concurrency utilities look for Core Java Volume II Advanced Features Ninth Edition ISBN 13 978 0 13 708160 8

**Java Developer's Resource** Elliott Rusty Harold,1997 Java Developer s Resource shows you how to write full featured dynamic graphical interactive Java applets and applications even if you don t have experience with other object oriented languages Starting with the simplest hello world applications you ll learn about Java variables arrays loops flow control and graphics as well as advanced language features such as file I O and streams

**Computer Security Applications Conference, 12th Annual**,1996 Proceedings of the December 1996 conference offering papers on security engineering secure links electronic payment cryptographic protocols security architecture firewalls data base security assurance and SSE CMM pilot results Specific topics include the design of secure electronic payment schemes for the Internet proxies for anonymous routing security and the national telecommunications infrastructure mandatory protection for Internet server software and formal techniques for an IRSEC E4 secure gateway No index Annotation copyrighted by Book News Inc Portland OR

**VisualCafé User's Guide**,1999 [IEEE ... Workshop on Multimedia Signal Processing](#),2004 *Developing JavaBeans Using VisualAge? for Java, Version 2* Dale R. Nilsson,1999-04-07 Create JavaBeans and JFC components using one of the hottest tools available This valuable guide was written by two IBM insiders who have successfully taught VisualAge for Java to programmers around the world for IBM s certification courses It gives programmers the inside track on preparing for IBM s certification and explains how to debug Java programs interactively Programmers and developers will find helpful coverage of VisualAge for Java s IDE and Visual Builder along with techniques for applying Visual Design Patterns They ll also learn how to deploy Java applications and applets and create JFC components with version 2 0 CD ROM includes VisualAge for Java Enterprise Edition Sun JDK 1 2 and BDK 1 2 and all of the code examples found in the book

**Advanced JavaServer Pages** David M. Geary,Sun Microsystems,2001 Shows how to design and implement flexible extensible and maintainable applications with servlets and JSP Covers authentication and internationalization techniques for JSP Covers using XML and XSLT with JSP

**Proceedings**,2000

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