

- It supports multiple output formats like PNG, JPEG, PDF, SVG etc.
- It allows extensive customizations of charts.

Consider a situation where you are developing an application and you need to show the data in the form of charts, and the data itself is populated dynamically. In such case, displaying the data in the form of charts using JFreeChart programming is very simple.

JFreeChart - Installation

JFreeChart is popular for its efficient chart creation and user-friendly installation setup. This chapter describes the process of setting up JFreeChart on Windows and Linux. User administration is needed while installing JFreeChart.

System Requirements

JDK	1.5 or above
Memory	2GB RAM
Disk Space	No minimum requirement
Operating System Version	Linux or Windows

Installing JFreeChart

To install JFreeChart, there are three following steps viz...

Jfreechart Developer Guide

Abhishek Kumar



Jfreechart Developer Guide:

Undocumented Secrets of MATLAB-Java Programming Yair M. Altman,2011-12-05 For a variety of reasons the MATLAB Java interface was never fully documented This is really quite unfortunate Java is one of the most widely used programming languages having many times the number of programmers and programming resources as MATLAB Also unfortunate is the popular claim that while MATLAB is a fine programming platform for proto **Data Analysis, Machine Learning and Applications** Christine Preisach,Hans Burkhardt,Lars Schmidt-Thieme,Reinhold Decker,2008-04-13 Data analysis and machine learning are research areas at the intersection of computer science artificial intelligence mathematics and statistics They cover general methods and techniques that can be applied to a vast set of applications such as web and text mining marketing medical science bioinformatics and business intelligence This volume contains the revised versions of selected papers in the field of data analysis machine learning and applications presented during the 31st Annual Conference of the German Classification Society Gesellschaft f r Klassifikation GfKI The conference was held at the Albert Ludwigs University in Freiburg Germany in March 2007 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

Java 8 Pocket Guide Robert Liguori, Patricia Liguori, 2014-04-08 When you need quick answers for developing or debugging Java programs this pocket guide provides a handy reference to standard features of the Java programming language and its platform You'll find helpful programming examples tables figures and lists as well as Java 8 features such as Lambda Expressions and the Date and Time API It's an ideal companion whether you're in the office in the lab or on the road This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam Quickly find Java language details such as naming conventions types statements and blocks and object oriented programming Get details on the Java SE platform including development basics memory management concurrency and generics Browse through information on basic input output NIO 2.0 the Java collections framework and the Java Scripting API Get supplemental references to fluent APIs third party tools and basics of the Unified Modeling Language UML

Engineering Multi-Agent Systems Danny Weyns, Viviana Mascardi, Alessandro Ricci, 2019-07-13 This book constitutes the revised and selected papers from the 6th International Workshop on Engineering Multi Agent Systems held in Stockholm Sweden in July 2018 in conjunction with AAMAS 2018 The 17 full papers presented in this volume were carefully reviewed and selected from 32 submissions The book also contains a state of the art paper that reflects on the role and potential of MAS engineering in a number of key facets The papers are clustered around the following themes programming agents and MAS agent oriented software engineering formal analysis techniques rational agents modeling and simulation frameworks and application domains

Java 7 Pocket Guide Robert Liguori, Patricia Liguori, 2013-07-09 When you need quick answers for developing or debugging Java programs this pocket guide provides a handy reference to the standard features of the Java programming language and its platform You'll find helpful programming examples tables figures and lists as well as supplemental information about topics including the Java

Scripting API third party tools and the basics of the Unified Modeling Language UML Updated for new features through Java SE 7 this little book is an ideal companion whether you re in the office in the lab or on the road Quickly find Java language details such as naming conventions fundamental types and object oriented programming elements Get details on the Java SE 7 platform including development basics memory management concurrency and generics Browse through basic information on NIO 2 0 the G1 Garbage Collector and Project Coin JSR 334 features Get supplemental references to development CM and test tools libraries IDEs and Java related scripting languages Find information to help you prepare for the Oracle Certified Associate Java SE 7 Programmer I exam

Java Pocket Guide Robert Liguori, Patricia Liguori, 2017-08-28 Any time you need quick answers for developing or debugging Java programs this pocket guide is the ideal reference to standard features of the Java programming language and its platform You ll find helpful programming examples tables figures and lists fast including Java 9 features such as modular source code and the new JShell interactive command line REPL It s a handy companion whether you re in the office in the lab or on the road This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam Quickly find Java language details such as naming conventions types statements and blocks and object oriented programming Get details on the Java SE platform including development basics memory management concurrency and generics Use new features in Java 9 including modular source code and JShell Browse through information on basic input output NIO 2 0 the Java collections framework and the Java Scripting API Get supplemental references to fluent APIs third party tools and basics of the Unified Modeling Language UML

iBPMS: Intelligent BPM Systems Layna Fischer, 2013-10-14 Intelligent business process management is the next generation of enterprise BPM leveraging recent technological advances to attain a degree of operational responsiveness not possible with yesterday s business process platform Today companies of all types want faster and better insight into their operations This growing demand for operational intelligence has given rise to a new smarter variety of business process management suites BPMSs An intelligent BPM suite provides the functionality needed to support more intelligent business operations including real time analytics extensive complex event processing CEP and business activity monitoring BAM technologies and enhanced mobile social and collaborative capabilities Dubbed iBPMS by Gartner Group who describes the intelligent BPM Suite as having 10 core components A process orchestration engine A model driven composition environment Content interaction management Human interaction management Connectivity Active analytics sometimes called continuous intelligence On demand analytics Business rules management BRM Management and administration for the suite s technical aspects A process component registry repository An intelligent BPM suite provides the functionality needed to support more intelligent business operations including real time analytics extensive complex event processing CEP and business activity monitoring BAM technologies and enhanced mobile social and collaborative capabilities The co authors of this important book describe various aspects and approaches with regard to impact and opportunity

Pentaho 5.0 Reporting by Example:

Beginner's Guide Mariano, GARCIA MATTIO, Dario R. Bernabeu, 2013-08-21 Key Features Install and configure PRD in Linux and Windows Create complex reports using relational data sources Produce reports with groups aggregate functions parameters graphics and sparklines Install and configure Pentaho BI Server to execute PRD reports Create and publish your own Java web application with parameterized reports and an interactive user interface Book Description Open source reporting tools and techniques such as PRD have been comparable in quality to their commercial counterparts this is largely due to the market's marked tendency to choose open source solutions PRD is a very powerful tool and in order to take full advantage of it you need to pay attention to the important details Pentaho 5.0 Reporting by Example Beginner's Guide clearly explains the foundation and then puts those concepts into practice through step by step visual guides Feeling confident with your newly discovered desirable skill you will have the power to create your very own professional reports including graphics formulas sub reports and many other forms of data reporting Pentaho 5.0 Reporting By Example Beginner's Guide is a step by step guide to create high quality professional reports Starting with the basics we will explore each feature to ensure a thorough understanding to peel back the curtain and take full advantage of the power that Pentaho puts at our fingertips This book gives you the necessary resources to create a great variety of reports You will be able to make reports that contain sub reports include graphics sparklines and so on You will also be able to parameterize your reports so that the final user can decide what information to visualize You will be able to create your own stoplight type indicators and drill down in your reports and execute your reports from your own web application Pentaho 5.0 Reporting By Example Beginner's Guide lets you learn everything necessary to work seriously with one of the world's most popular open source reporting tools This book will guide you chapter by chapter through examples graphics and theoretical explanations so that you feel comfortable interacting with Pentaho Report Designer and creating your own reports What you will learn Download configure and install Pentaho Report Designer Create your own data sources or insertable objects that can use them Produce reports with different hierarchical levels and create aggregate functions to calculate totals and sub totals Use parameters in your reports to enable the user to interact directly with your report Generate your own sub reports and add graphics and sparklines Create reports with the capacity to drill down Publish and execute your reports on the Pentaho BI Server Produce reports that use session variables such as user role to vary their content Develop your own Java web application to execute your reports Who this book is for Pentaho 5.0 By Example Beginner's Guide is the ideal companion for a wide variety of developers Whether you are new to the world of Business Intelligence reporting or an experienced BI analyst this book will guide you through the creation of your first reports in Pentaho We assume some knowledge of the SQL language and database systems

Netcentric System of Systems Engineering with DEVS Unified Process Saurabh Mittal, José L. Risco Martín, 2018-09-03 In areas such as military security aerospace and disaster management the need for performance optimization and interoperability among heterogeneous systems is increasingly important Model driven engineering a

paradigm in which the model becomes the actual software offers a promising approach toward systems of systems SoS engineering However model driven engineering has largely been unachieved in complex dynamical systems and netcentric SoS partly because modeling and simulation M S frameworks are stove piped and not designed for SoS composability Addressing this gap Netcentric System of Systems Engineering with DEVS Unified Process presents a methodology for realizing the model driven engineering vision and netcentric SoS using DEVS Unified Process DUNIP The authors draw on their experience with Discrete Event Systems Specification DEVS formalism System Entity Structure SES theory and applying model driven engineering in the context of a netcentric SoS They describe formal model driven engineering methods for netcentric M S using standards based approaches to develop and test complex dynamic models with DUNIP The book is organized into five sections Section I introduces undergraduate students and novices to the world of DEVS It covers systems and SoS M S as well as DEVS formalism software modeling language and DUNIP It also assesses DUNIP with the requirements of the Department of Defense s DoD Open Unified Technical Framework OpenUTF for netcentric Test and Evaluation T E Section II delves into M S based systems engineering for graduate students advanced practitioners and industry professionals It provides methodologies to apply M S principles to SoS design and reviews the development of executable architectures based on a framework such as the Department of Defense Architecture Framework DoDAF It also describes an approach for building netcentric knowledge based contingency driven systems Section III guides graduate students advanced DEVS users and industry professionals who are interested in building DEVS virtual machines and netcentric SoS It discusses modeling standardization the deployment of models and simulators in a netcentric environment event driven architectures and more Section IV explores real world case studies that realize many of the concepts defined in the previous chapters Section V outlines the next steps and looks at how the modeling of netcentric complex adaptive systems can be attempted using DEVS concepts It touches on the boundaries of DEVS formalism and the future work needed to utilize advanced concepts like weak and strong emergence self organization scale free systems run time modularity and event interoperability This groundbreaking work details how DUNIP offers a well structured platform independent methodology for the modeling and simulation of netcentric system of systems

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

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

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Ultimate Java for Data Analytics and Machine Learning Abhishek Kumar, 2024-08-08 TAGLINE Empower Your Data Insights with Java's Top Tools and Frameworks KEY FEATURES Explore diverse techniques and algorithms for data analytics using Java Learn through hands on examples and practical applications in each chapter Master essential tools and frameworks such as JFreeChart for data visualization and Deeplearning4j for deep learning DESCRIPTION This book is a comprehensive guide to data analysis using Java It starts with the fundamentals covering the purpose of data analysis different data types and structures and how to pre process datasets It then introduces popular Java libraries like WEKA and Rapidminer for efficient data analysis The middle section of the book dives deeper into statistical techniques like descriptive analysis and random sampling along with practical skills in working with relational databases JDBC SQL MySQL and NoSQL databases It also explores various analysis methods like regression classification and clustering along with applications in business

intelligence and time series prediction The final part of the book gives a brief overview of big data analysis with Java frameworks like MapReduce and introduces deep learning with the Deeplearning4J library Whether you re new to data analysis or want to improve your Java skills this book offers a step by step approach with real world examples to help you master data analysis using Java

WHAT WILL YOU LEARN Understand foundational principles and types of data analytics including descriptive diagnostic predictive and prescriptive analytics Master techniques for preprocessing data including cleaning and munging to prepare it for analysis Learn how to create various charts and plots including bar charts histograms and scatter plots for effective data visualization Explore Java based libraries such as WEKA and Deeplearning4j for implementing machine learning algorithms Develop expertise in statistical techniques including hypothesis testing regression linear and polynomial and probability distributions Acquire practical skills in SQL querying and JDBC for relational databases Explore applications in business intelligence and deep learning including image recognition and natural language processing

WHO IS THIS BOOK FOR This book is ideal for IT professionals software developers and data scientists interested in using Java for data analytics It is also suitable for students and researchers seeking practical insights into Java based data analysis Readers should have a basic understanding of Java programming and fundamental concepts in data analysis

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Index [Compiler Construction](#) , *Recent Research in Control Engineering and Decision Making* Olga Dolinina,Alexander Brovko,Vitaly Pechenkin,Alexey Lvov,Vadim Zhmud,Vladik Kreinovich,2019-01-28 This book constitutes the full papers and short monographs developed on the base of the refereed proceedings of the International Conference on Information Technologies Information and Communication Technologies for Research and Industry ICIT 2019 held in Saratov Russia in February 2019 The book brings accepted papers which present new approaches and methods of solving problems in the sphere of control engineering and decision making for the various fields of studies industry and research ontology based data simulation smart city technologies theory and use of digital signal processing cognitive systems robotics cybernetics automation control theory image recognition technologies and computer vision Particular emphasis is laid on modern trends new approaches algorithms and methods in selected fields of interest The presented papers were accepted after careful reviews made by at least three independent reviewers in a double blind way The acceptance level was about 60% The chapters are organized thematically in several areas within the following tracks Models Methods Approaches in Decision Making Systems Mathematical Modelling for Industry Research Smart City Technologies The conference is focused on development and globalization of information and communication technologies ICT methods of control engineering and decision making along with innovations and networking ICT for sustainable development and technological

change and global challenges Moreover the ICIT 2019 served as a discussion area for the actual above mentioned topics The editors believe that the readers will find the proceedings interesting and useful for their own research work *Wicked Cool Java* Brian D. Eubanks,2005 Containing 101 fun interesting and useful ways to get more out of Java this title targets developers and system architects who have some basic Java knowledge but may not be familiar with the wide range of libraries available *Vaadin 7 UI Design by Example* Alejandro Duarte,2013-01-01 This book is a hands on Beginner s Guide for developers who are new to Vaadin and or Vaadin UI components The book will teach readers through examples to use each of the exciting components to build and add various aspects of the user interface to their web apps If you have experience with the Java language and want to create web applications that look good without having to deal with HTML XML and JavaScript this book is for you Basic Java programming skills are required but no web development knowledge is needed at all *JBuilder Developer's Guide* Michael Landy,Saleem Siddiqui,Jeff Swisher,2003 JBuilder Developer s Guide provides comprehensive coverage of JBuilder from the practitioner s viewpoint The authors develop a consolidated application throughout the chapters allowing conceptual cohesion and illustrating the use of JBuilder to build real world applications The examples can be compiled and run under JBuilder Personal edition a free edition of JBuilder JBuilder Developer s Guide is not version specific but explains the latest JBuilder 6 7 and 8 features such as enterprise J2EE application development CORBA SOAP XML tools Enterprise JavaBeans JavaServer Pages Servlets and JavaBeans technology JBuilder repeatedly wins developer s choice awards as the best visual tool for developing Java applications The Java Developer's Guide to Eclipse Jim D'Anjou,2005 *Java Beans Developer's Guide* Mohseni,1997-09-01

Jfreechart Developer Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Jfreechart Developer Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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