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Learning Big Data with Amazon Elastic MapReduce

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Learning Big Data With Amazon Elastic Mapreduce

**Rekh Ram Janghel, Rohit Raja, Korhan
Cengiz, Hiral Raja**

Learning Big Data With Amazon Elastic Mapreduce:

Simplify Big Data Analytics with Amazon EMR Sakti Mishra,2022-03-25 Design scalable big data solutions using Hadoop Spark and AWS cloud native services Key FeaturesBuild data pipelines that require distributed processing capabilities on a large volume of dataDiscover the security features of EMR such as data protection and granular permission managementExplore best practices and optimization techniques for building data analytics solutions in Amazon EMRBook Description Amazon EMR formerly Amazon Elastic MapReduce provides a managed Hadoop cluster in Amazon Web Services AWS that you can use to implement batch or streaming data pipelines By gaining expertise in Amazon EMR you can design and implement data analytics pipelines with persistent or transient EMR clusters in AWS This book is a practical guide to Amazon EMR for building data pipelines You ll start by understanding the Amazon EMR architecture cluster nodes features and deployment options along with their pricing Next the book covers the various big data applications that EMR supports You ll then focus on the advanced configuration of EMR applications hardware networking security troubleshooting logging and the different SDKs and APIs it provides Later chapters will show you how to implement common Amazon EMR use cases including batch ETL with Spark real time streaming with Spark Streaming and handling UPSERT in S3 Data Lake with Apache Hudi Finally you ll orchestrate your EMR jobs and strategize on premises Hadoop cluster migration to EMR In addition to this you ll explore best practices and cost optimization techniques while implementing your data analytics pipeline in EMR By the end of this book you ll be able to build and deploy Hadoop or Spark based apps on Amazon EMR and also migrate your existing on premises Hadoop workloads to AWS What you will learnExplore Amazon EMR features architecture Hadoop interfaces and EMR StudioConfigure deploy and orchestrate Hadoop or Spark jobs in productionImplement the security data governance and monitoring capabilities of EMRBuild applications for batch and real time streaming data analytics solutionsPerform interactive development with a persistent EMR cluster and NotebookOrchestrate an EMR Spark job using AWS Step Functions and Apache AirflowWho this book is for This book is for data engineers data analysts data scientists and solution architects who are interested in building data analytics solutions with the Hadoop ecosystem services and Amazon EMR Prior experience in either Python programming Scala or the Java programming language and a basic understanding of Hadoop and AWS will help you make the most out of this book

Learning Big Data with Amazon Elastic MapReduce Amarkant Singh,Vijay Rayapati,2014-10-10 This book is aimed at developers and system administrators who want to learn about Big Data analysis using Amazon Elastic MapReduce Basic Java programming knowledge is required You should be comfortable with using command line tools Prior knowledge of AWS API and CLI tools is not assumed Also no exposure to Hadoop and MapReduce is expected **Handbook of Research on Big Data Storage and Visualization Techniques** Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or

collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Programming

Elastic MapReduce Kevin Schmidt,Christopher Phillips,2013-12-10 Although you don t need a large computing infrastructure to process massive amounts of data with Apache Hadoop it can still be difficult to get started This practical guide shows you how to quickly launch data analysis projects in the cloud by using Amazon Elastic MapReduce EMR the hosted Hadoop framework in Amazon Web Services AWS Authors Kevin Schmidt and Christopher Phillips demonstrate best practices for using EMR and various AWS and Apache technologies by walking you through the construction of a sample MapReduce log analysis application Using code samples and example configurations you ll learn how to assemble the building blocks necessary to solve your biggest data analysis problems Get an overview of the AWS and Apache software tools used in large scale data analysis Go through the process of executing a Job Flow with a simple log analyzer Discover useful MapReduce patterns for filtering and analyzing data sets Use Apache Hive and Pig instead of Java to build a MapReduce Job Flow Learn the basics for using Amazon EMR to run machine learning algorithms Develop a project cost model for using Amazon EMR and other AWS tools

Couchbase Essentials John Zablocki,2015-02-25 This book is for those application developers who want to achieve greater flexibility and scalability from their software Whether you are familiar with other NoSQL databases or have only used relational systems this book will provide you with enough background to move you along at your own pace If you are new to NoSQL document databases the design discussions and introductory material will give you the information you need to get started with Couchbase

Infrastructure Monitoring with Amazon CloudWatch Ewere Diagboya,2021-04-16 Explore real world examples of issues with systems and find ways to resolve them using Amazon CloudWatch as a monitoring service Key FeaturesBecome well versed with monitoring fundamentals such as understanding the building blocks and architecture of networkingLearn how to ensure your applications never face downtimeGet hands on with observing serverless applications and servicesBook Description CloudWatch is Amazon s monitoring and observability service designed to help those in the IT industry who are interested in optimizing resource utilization visualizing operational health and eventually increasing infrastructure performance This book helps IT administrators DevOps engineers network engineers and solutions architects to make optimum use of this cloud service for effective infrastructure productivity You ll start with a brief introduction to monitoring and Amazon CloudWatch and its core

functionalities Next you'll get to grips with CloudWatch features and their usability Once the book has helped you develop your foundational knowledge of CloudWatch you'll be able to build your practical skills in monitoring and alerting various Amazon Web Services such as EC2 EBS RDS ECS EKS DynamoDB AWS Lambda and ELB with the help of real world use cases As you progress you'll also learn how to use CloudWatch to detect anomalous behavior set alarms visualize logs and metrics define automated actions and rapidly troubleshoot issues Finally the book will take you through monitoring AWS billing and costs By the end of this book you'll be capable of making decisions that enhance your infrastructure performance and maintain it at its peak What you will learnUnderstand the meaning and importance of monitoringExplore the components of a basic monitoring systemUnderstand the functions of CloudWatch Logs metrics and dashboardsDiscover how to collect different types of metrics from EC2Configure Amazon EventBridge to integrate with different AWS servicesGet up to speed with the fundamentals of observability and the AWS services used for observabilityFind out about the role Infrastructure As Code IaC plays in monitoringGain insights into how billing works using different CloudWatch featuresWho this book is for This book is for developers DevOps engineers site reliability engineers or any IT individual with hands on intermediate level experience in networking cloud computing and infrastructure management A beginner level understanding of AWS and application monitoring will also be helpful to grasp the concepts covered in the book more effectively

Elasticsearch Server Rafał Kuć, Marek Rogozinski, 2016-02-29 Leverage Elasticsearch to create a robust fast and flexible search solution with ease About This Book Boost the searching capabilities of your system through synonyms multilingual data handling nested objects and parent child documents Deep dive into the world of data aggregation and data analysis with Elasticsearch Explore a wide range of Elasticsearch modules that define the behavior of a cluster Who This Book Is For If you are a competent developer and want to learn about the great and exciting world of Elasticsearch then this book is for you No prior knowledge of Java or Apache Lucene is needed What You Will Learn Configure create and retrieve data from your indices Use an Elasticsearch query DSL to create a wide range of queries Discover the highlighting and geographical search features offered by Elasticsearch Find out how to index data that is not flat or data that has a relationship Exploit a prospective search to search for queries not documents Use the aggregations framework to get more from your data and improve your client's search experience Monitor your cluster state and health using the Elasticsearch API as well as third party monitoring solutions Discover how to properly set up Elasticsearch for various use cases In Detail Elasticsearch is a very fast and scalable open source search engine designed with distribution and cloud in mind complete with all the goodies that Apache Lucene has to offer Elasticsearch's schema free architecture allows developers to index and search unstructured content making it perfectly suited for both small projects and large big data warehouses even those with petabytes of unstructured data This book will guide you through the world of the most commonly used Elasticsearch server functionalities You'll start off by getting an understanding of the basics of Elasticsearch and its data indexing functionality Next you will see

the querying capabilities of ElasticSearch followed by a through explanation of scoring and search relevance After this you will explore the aggregation and data analysis capabilities of ElasticSearch and will learn how cluster administration and scaling can be used to boost your application performance You ll find out how to use the friendly REST APIs and how to tune ElasticSearch to make the most of it By the end of this book you will have be able to create amazing search solutions as per your project s specifications Style and approach This step by step guide is full of screenshots and real world examples to take you on a journey through the wonderful world of full text search provided by ElasticSearch *Analyzing Big Data with Hadoop, AWS, and EMR* Frank Kane,2017 Hadoop is today s most pervasive technology used in Big Data for distributing the processing of massive data sets across clusters of commodity computers With Amazon s Elastic MapReduce service EMR you can rent capacity through Amazon Web Services AWS to store and analyze data at minimal cost on top of a real Hadoop cluster This course shows you how to use an EMR Hadoop cluster via a real life example where you ll analyze movie ratings data using Hive Pig and Oozie It focuses on practical tips for using an EMR cluster efficiently integrating the cluster with Amazon s S3 service and determining the right money saving size for a cluster You ll learn how to interact with your cluster through the Hue Web interface from a terminal prompt as well as through EMR steps that can execute your scripts

automatically Resource description page *Hands-On Design Patterns with Java* Dr. Edward Lavieri,2019-04-27 Understand Gang of Four architectural functional and reactive design patterns and how to implement them on modern Java platforms such as Java 12 and beyond Key FeaturesLearn OOP functional and reactive patterns for creating readable and maintainable codeExplore architectural patterns and practices for building scalable and reliable applicationsTackle all kinds of performance related issues and streamline development using design patternsBook Description Java design patterns are reusable and proven solutions to software design problems This book covers over 60 battle tested design patterns used by developers to create functional reusable and flexible software Hands On Design Patterns with Java starts with an introduction to the Unified Modeling Language UML and delves into class and object diagrams with the help of detailed examples You ll study concepts and approaches to object oriented programming OOP and OOP design patterns to build robust applications As you advance you ll explore the categories of GOF design patterns such as behavioral creational and structural that help you improve code readability and enable large scale reuse of software You ll also discover how to work effectively with microservices and serverless architectures by using cloud design patterns each of which is thoroughly explained and accompanied by real world programming solutions By the end of the book you ll be able to speed up your software development process using the right design patterns and you ll be comfortable working on scalable and maintainable projects of any size What you will learnUnderstand the significance of design patterns for software engineeringVisualize software design with UML diagramsStrengthen your understanding of OOP to create reusable software systemsDiscover GOF design patterns to develop scalable applicationsExamine programming challenges and the design

patterns that solve themExplore architectural patterns for microservices and cloud developmentWho this book is for If you are a developer who wants to learn how to write clear concise and effective code for building production ready applications this book is for you Familiarity with the fundamentals of Java is assumed **Ultimate AWS Certified Solutions Architect Associate Exam Guide** Venkata Sasi Kanumuri,Otieno Ododa,2024-09-25 TAGLINE Your Definitive Path to Mastering Cloud Architecture Skills and Conquering the SAA C03 Exam KEY FEATURES Immerse in practical learning to solidify your grasp of AWS architecture principles Gain insights from industry leading tips and best practices to think like an expert Solution Architect Designed for all experience levels this guide caters to both beginners and seasoned professionals Deepen your knowledge of core AWS services while exploring advanced topics like serverless computing containers and machine learning Equip yourself with proven strategies and expert tips to confidently pass the AWS Certified Solutions Architect Associate exam DESCRIPTION The AWS Certified Solutions Architect Associate SAA C03 credential boosts career prospects and salaries with 73% of professionals seeing job improvements and a 26% salary increase The Ultimate AWS Certified Solutions Architect Associate SAA C03 Certification Guide equips you with the knowledge to master AWS architecture from core services to advanced topics like serverless computing and machine learning with practical examples and expert insights that are crucial for passing the exam and excelling in real world applications This book not only covers the fundamentals but also explores advanced topics like serverless computing containers and machine learning Each chapter is packed with practical examples real world scenarios hands on exercises and expert insights that will build your confidence and competence as a cloud architect With this guide you will gain the knowledge and skills needed to create highly available fault tolerant architectures that meet the demands of today s dynamic cloud environments Whether you are aiming to pass the AWS Certified Solutions Architect Associate exam or looking to enhance your cloud architecture skills this book is your gateway to success Take the first step towards becoming an AWS Certified Solutions Architect and unlock new horizons in your cloud architecture career today WHAT WILL YOU LEARN Develop a strong grasp of cloud fundamentals essential for thriving in the fast paced world of cloud technology Learn to build secure fault tolerant and cost efficient AWS architectures that meet diverse business requirements Gain comprehensive knowledge of AWS services like computing storage networking and databases to create scalable and reliable cloud solutions Explore cutting edge AWS solutions such as serverless computing containers and machine learning to enhance your cloud architectures Develop the skills to tackle complex cloud environments with confidence using practical insights and strategies to solve real world problems Master expert tips and targeted strategies to excel in the AWS Certified Solutions Architect Associate SAA C03 exam and achieve certification WHO IS THIS BOOK FOR This book is tailored for aspiring AWS professionals and those looking to advance as Solution Architects with a focus on preparing for the SAA C03 exam No prior experience in cloud application development or deployment is required making it an ideal resource for beginners eager to start their AWS journey Experienced professionals will also find

value in the comprehensive coverage and advanced topics ensuring they can refine their skills and achieve certification success

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AWS certification guide - AWS Certified SysOps Administrator - Associate

Cybellium, AWS Certification Guide AWS Certified SysOps Administrator Associate

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Analyzing Big Data with Spark and Amazon EMR Frank Kane, 2017

This is a hands on course where Amazon Web Services pro Frank Kane shows you how to rent Amazon's Elastic MapReduce service EMR at minimal cost and use it to run Spark scripts on top of a real Hadoop cluster.

Kane's approach is fun You'll learn a Big Data analysis process by actually deploying Spark on EMR to build a working movie recommendation engine using real movie ratings data.

Resource description page

Emerging Trends in Intelligent Systems & Network Security Mohamed Ben Ahmed, Boudhir Anouar Abdelhakim, Bernadetta Kwintiana Ane, Didi Rosiyadi, 2022-08-31

This book covers selected research works presented at the fifth International Conference on Networking Information Systems and Security NISS 2022 organized by the Research

Center for Data and Information Sciences at the National Research and Innovation Agency BRIN Republic of Indonesia and Moroccan Mediterranean Association of Sciences and Sustainable Development Morocco during March 30 31 2022 hosted in online mode in Bandung Indonesia Building on the successful history of the conference series in the recent four years this book aims to present the paramount role of connecting researchers around the world to disseminate and share new ideas in intelligent information systems cyber security and networking technologies The 49 chapters presented in this book were carefully reviewed and selected from 115 submissions They focus on delivering intelligent solutions through leveraging advanced information systems networking and security for competitive advantage and cost savings in modern industrial sectors as well as public business and education sectors Authors are eminent academicians scientists researchers and scholars in their respective fields from across the world

Next Generation Healthcare Systems Using Soft Computing

Techniques Rekh Ram Janghel, Rohit Raja, Korhan Cengiz, Hiral Raja, 2022-09-21 This book presents soft computing techniques and applications used in healthcare systems along with the latest advancements Written as a guide for assessing the roles that these techniques play the book also highlights implementation strategies lists problem solving solutions and paves the way for future research endeavors in smart and next generation healthcare systems This book provides applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles that various techniques such as machine learning fuzzy logic and statical mathematics play in the advancements of smart healthcare systems The book presents the basics as well as the advanced concepts to help beginners as well as industry professionals get up to speed on the latest developments in healthcare systems The book examines descriptive predictive and social network techniques and discusses analytical tools and the important role they play in finding solutions to problems in healthcare systems A framework of robust and novel healthcare techniques is highlighted as well as implementation strategies and a setup for future research endeavors Healthcare Systems Using Soft Computing Techniques is a valuable resource for researchers and postgraduate students in healthcare systems engineering computer science information technology and applied mathematics The book introduces beginners to and at the same time brings industry professionals up to speed with the important role soft computing techniques play in smart healthcare systems

Human-Computer Interaction. User Interface Design, Development and Multimodality Masaaki Kurosu, 2017-06-28 The two volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human Computer Interaction HCII 2017 held in Vancouver BC Canada in July 2017 The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems They cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers included in this volume cover the following topics HCI theory and education HCI

innovation and technology acceptance interaction design and evaluation methods user interface development methods tools and architectures multimodal interaction and emotions in HCI *Mastering Machine Learning on AWS* Dr. Saket S.R. Mengle, Maximo Gurmendez, 2019-05-20 Gain expertise in ML techniques with AWS to create interactive apps using SageMaker Apache Spark and TensorFlow Key FeaturesBuild machine learning apps on Amazon Web Services AWS using SageMaker Apache Spark and TensorFlowLearn model optimization and understand how to scale your models using simple and secure APIsDevelop train tune and deploy neural network models to accelerate model performance in the cloudBook Description AWS is constantly driving new innovations that empower data scientists to explore a variety of machine learning ML cloud services This book is your comprehensive reference for learning and implementing advanced ML algorithms in AWS cloud As you go through the chapters you ll gain insights into how these algorithms can be trained tuned and deployed in AWS using Apache Spark on Elastic Map Reduce EMR SageMaker and TensorFlow While you focus on algorithms such as XGBoost linear models factorization machines and deep nets the book will also provide you with an overview of AWS as well as detailed practical applications that will help you solve real world problems Every practical application includes a series of companion notebooks with all the necessary code to run on AWS In the next few chapters you will learn to use SageMaker and EMR Notebooks to perform a range of tasks right from smart analytics and predictive modeling through to sentiment analysis By the end of this book you will be equipped with the skills you need to effectively handle machine learning projects and implement and evaluate algorithms on AWS What you will learnManage AI workflows by using AWS cloud to deploy services that feed smart data productsUse SageMaker services to create recommendation modelsScale model training and deployment using Apache Spark on EMRUnderstand how to cluster big data through EMR and seamlessly integrate it with SageMakerBuild deep learning models on AWS using TensorFlow and deploy them as servicesEnhance your apps by combining Apache Spark and Amazon SageMakerWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and AWS users who want to build advanced models and smart applications on the cloud using AWS and its integration services Some understanding of machine learning concepts Python programming and AWS will be beneficial

Business Data Science: Combining Machine Learning and Economics to Optimize, Automate, and Accelerate Business Decisions Matt Taddy, 2019-08-23 Use machine learning to understand your customers frame decisions and drive value The business analytics world has changed and Data Scientists are taking over Business Data Science takes you through the steps of using machine learning to implement best in class business data science Whether you are a business leader with a desire to go deep on data or an engineer who wants to learn how to apply Machine Learning to business problems you ll find the information insight and tools you need to flourish in today s data driven economy You ll learn how to Use the key building blocks of Machine Learning sparse regularization out of sample validation and latent factor and topic modeling Understand how use ML tools in real world business problems where causation matters more that

correlation Solve data science programs by scripting in the R programming language Today s business landscape is driven by data and constantly shifting Companies live and die on their ability to make and implement the right decisions quickly and effectively Business Data Science is about doing data science right It s about the exciting things being done around Big Data to run a flourishing business It s about the precepts principals and best practices that you need know for best in class business data science

AWS Certified SysOps Administrator Associate All-in-One-Exam Guide (Exam SOA-C01)

Sam R. Alapati,2019-06-14 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product This study guide covers 100% of the objectives for the AWS Certified SysOps Administrator Associate examTake the challenging AWS Certified SysOps Administrator Associate exam with confidence using this highly effective self study guide You will learn how to provision systems ensure data integrity handle security and monitor and tune Amazon Web Services performance Written by an industry leading expert AWS Certified SysOps Administrator Associate All in One Exam Guide Exam SOA C01 fully covers every objective for the exam and follows a hands on step by step methodology Beyond fully preparing you for the exam the book also serves as a valuable on the job reference Covers all exam topics including Systems operations Signing up working with the AWS Management Console and the AWS CLI AWS Identity and Access Management IAM and AWS service security AWS compute services and the Elastic Compute Cloud EC2 Amazon ECS AWS Batch AWS Lambda and other compute services Storage and archiving in the AWS cloud with Amazon EBS Amazon EFS and Amazon S3 Glacier Managing databases in the cloud Amazon RDS Amazon Aurora Amazon DynamoDB Amazon ElastiCache and Amazon Redshift Application integration with Amazon SQS and Amazon SNS AWS high availability strategies Monitoring with Amazon CloudWatch logging and managing events Managing AWS costs and billing Infrastructure provisioning through AWS CloudFormation and AWS OpsWorks application deployment and creating scalable infrastructuresOnline content includes 130 practice questions

Test engine that provides full length practice exams or customized quizzes by chapter or by exam domain

Applied

Machine Learning M. Gopal,2019-06-07 Cutting edge machine learning principles practices and applications This comprehensive textbook explores the theoretical under pinnings of learning and equips readers with the knowledge needed to apply powerful machine learning techniques to solve challenging real world problems Applied Machine Learning shows step by step how to conceptualize problems accurately represent data select and tune algorithms interpret and analyze results and make informed strategic decisions Presented in a non rigorous mathematical style the book covers a broad array of machine learning topics with special emphasis on methods that have been profitably employed Coverage includes Supervised learning Statistical learning Learning with support vector machines SVM Learning with neural networks NN Fuzzy inference systems Data clustering Data transformations Decision tree learning Business intelligence Data mining And much more

[Frank Kane's Taming Big Data with Apache Spark and Python](#) Frank Kane,2017-06-30 Frank Kane s hands on

Spark training course based on his bestselling Taming Big Data with Apache Spark and Python video now available in a book Understand and analyze large data sets using Spark on a single system or on a cluster About This Book Understand how Spark can be distributed across computing clusters Develop and run Spark jobs efficiently using Python A hands on tutorial by Frank Kane with over 15 real world examples teaching you Big Data processing with Spark Who This Book Is For If you are a data scientist or data analyst who wants to learn Big Data processing using Apache Spark and Python this book is for you If you have some programming experience in Python and want to learn how to process large amounts of data using Apache Spark Frank Kane's Taming Big Data with Apache Spark and Python will also help you What You Will Learn Find out how you can identify Big Data problems as Spark problems Install and run Apache Spark on your computer or on a cluster Analyze large data sets across many CPUs using Spark's Resilient Distributed Datasets Implement machine learning on Spark using the MLlib library Process continuous streams of data in real time using the Spark streaming module Perform complex network analysis using Spark's GraphX library Use Amazon's Elastic MapReduce service to run your Spark jobs on a cluster In Detail Frank Kane's Taming Big Data with Apache Spark and Python is your companion to learning Apache Spark in a hands on manner Frank will start you off by teaching you how to set up Spark on a single system or on a cluster and you'll soon move on to analyzing large data sets using Spark RDD and developing and running effective Spark jobs quickly using Python Apache Spark has emerged as the next big thing in the Big Data domain quickly rising from an ascending technology to an established superstar in just a matter of years Spark allows you to quickly extract actionable insights from large amounts of data on a real time basis making it an essential tool in many modern businesses Frank has packed this book with over 15 interactive fun filled examples relevant to the real world and he will empower you to understand the Spark ecosystem and implement production grade real time Spark projects with ease Style and approach Frank Kane's Taming Big Data with Apache Spark and Python is a hands on tutorial with over 15 real world examples carefully explained by Frank in a step by step manner The examples vary in complexity and you can move through them at your own pace

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