



Community Experience Distilled

# Learning Real-time Processing with Spark Streaming

Building scalable and fault-tolerant streaming applications made easy with Spark Streaming

Sumit Gupta

[PACKT] open source\*  
PUBLISHING

# Learning Real Time Processing With Spark Streaming

**Abdelfatteh Haidine**



## **Learning Real Time Processing With Spark Streaming:**

**Learning Real Time Processing with Spark Streaming** Sumit Gupta, 2015-09-28 Building scalable and fault tolerant streaming applications made easy with Spark streaming About This Book Process live data streams more efficiently with better fault recovery using Spark Streaming Implement and deploy real time log file analysis Learn about integration with Advance Spark Libraries GraphX Spark SQL and MLib Who This Book Is For This book is intended for big data developers with basic knowledge of Scala but no knowledge of Spark It will help you grasp the basics of developing real time applications with Spark and understand efficient programming of core elements and applications What You Will Learn Install and configure Spark and Spark Streaming to execute applications Explore the architecture and components of Spark and Spark Streaming to use it as a base for other libraries Process distributed log files in real time to load data from distributed sources Apply transformations on streaming data to use its functions Integrate Apache Spark with the various advance libraries like MLib and GraphX Apply production deployment scenarios to deploy your application In Detail Using practical examples with easy to follow steps this book will teach you how to build real time applications with Spark Streaming Starting with installing and setting the required environment you will write and execute your first program for Spark Streaming This will be followed by exploring the architecture and components of Spark Streaming along with an overview of libraries functions exposed by Spark Next you will be taught about various client APIs for coding in Spark by using the use case of distributed log file processing You will then apply various functions to transform and enrich streaming data Next you will learn how to cache and persist datasets Moving on you will integrate Apache Spark with various other libraries components of Spark like Mlib GraphX and Spark SQL Finally you will learn about deploying your application and cover the different scenarios ranging from standalone mode to distributed mode using Mesos Yarn and private data centers or on cloud infrastructure Style and approach A Step by Step approach to learn Spark Streaming in a structured manner with detailed explanation of basic and advance features in an easy to follow Style Each topic is explained sequentially and supported with real world examples and executable code snippets that appeal to the needs of readers with the wide range of experiences

**Pro Spark Streaming** Zubair Nabi, 2016-06-13 Learn the right cutting edge skills and knowledge to leverage Spark Streaming to implement a wide array of real time streaming applications This book walks you through end to end real time application development using real world applications data and code Taking an application first approach each chapter introduces use cases from a specific industry and uses publicly available datasets from that domain to unravel the intricacies of production grade design and implementation The domains covered in Pro Spark Streaming include social media the sharing economy finance online advertising telecommunication and IoT In the last few years Spark has become synonymous with big data processing DStreams enhance the underlying Spark processing engine to support streaming analysis with a novel micro batch processing model Pro Spark Streaming by Zubair Nabi will enable you to become a specialist of latency

sensitive applications by leveraging the key features of DStreams micro batch processing and functional programming To this end the book includes ready to deploy examples and actual code Pro Spark Streaming will act as the bible of Spark Streaming What You'll Learn Discover Spark Streaming application development and best practices Work with the low level details of discretized streams Optimize production grade deployments of Spark Streaming via configuration recipes and instrumentation using Graphite collectd and Nagios Ingest data from disparate sources including MQTT Flume Kafka Twitter and a custom HTTP receiver Integrate and couple with HBase Cassandra and Redis Take advantage of design patterns for side effects and maintaining state across the Spark Streaming micro batch model Implement real time and scalable ETL using data frames SparkSQL Hive and SparkR Use streaming machine learning predictive analytics and recommendations Mesh batch processing with stream processing via the Lambda architecture Who This Book Is For Data scientists big data experts BI analysts and data architects

**Stream Processing with Apache Spark** Gerard Maas, Francois

Garillot, 2019-06-05 Before you can build analytics tools to gain quick insights you first need to know how to process data in real time With this practical guide developers familiar with Apache Spark will learn how to put this in memory framework to use for streaming data You'll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs Authors Gerard Maas and Francois Garillot help you explore the theoretical underpinnings of Apache Spark This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports the original Spark Streaming library and the newer Structured Streaming API Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects including Apache Storm Apache Flink and Apache Kafka Streams

**Big Data Processing Using Spark in Cloud** Mamta Mittal, Valentina E. Balas, Lalit

Mohan Goyal, Raghvendra Kumar, 2018-06-16 The book describes the emergence of big data technologies and the role of Spark in the entire big data stack It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark The book mainly focuses on the in depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature and solves it with lazy evaluation cacheable and type inference It also addresses advanced topics in Spark starting with the basics of Scala and the core Spark framework and exploring Spark data frames machine learning using Mlib graph analytics using Graph X and real time processing with Apache Kafka AWS Kinesis and Azure Event Hub It then goes on to investigate Spark using PySpark and R Focusing on the current big data stack the book examines the interaction with current big data tools with Spark being the core processing layer for all types of data The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud In

addition to industry professionals it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments

**Winning Strategies** Dr. Raj Sinha, 2025-01-25

**Winning Strategies How Top Brands Leverage AI ML to Deliver Exceptional Customer Experiences in Digital Marketing** A Comprehensive Guide to AI Powered Customer Experience Discover how to

- 1 Prioritize Customer Experience with Dr Mamta Kumari
- 2 Unlock the Power of Personalization with Md Gauhar Hasnain
- 3 Achieve AI Driven Marketing Excellence with Dr Neshat Qamar
- 4 Build a Strong AI Foundation with Prasenjit Chakraborty
- 5 Shape the Future of Customer Experience with Prasenjit Chakraborty
- 6 Master AI Powered Personalization with Dr Raj Sinha

This groundbreaking book featuring insights from industry experts provides a practical and actionable guide for businesses of all sizes By following the guidance of these esteemed authors organizations can unlock the full potential of AI and achieve sustainable growth in the digital age

**Stream Processing with Apache Spark** Gerard Maas, Francois Garillot, 2019

To build analytics tools that provide faster insights knowing how to process data in real time is a must and moving from batch processing to stream processing is absolutely required Fortunately the Spark in memory framework platform for processing data has added an extension devoted to fault tolerant stream processing Spark Streaming If you re familiar with Apache Spark and want to learn how to implement it for streaming jobs this practical book is a must Understand how Spark Streaming fits in the big picture Learn core concepts such as Spark RDDs Spark Streaming clusters and the fundamentals of a DStream Discover how to create a robust deployment Dive into streaming algorithmics Learn how to tune measure and monitor Spark Streaming

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**Apache Spark 2: Data Processing and Real-Time Analytics** Romeo Kienzler, Md. Rezaul Karim, Sridhar Alla, Siamak Amirghodsi, Meenakshi Rajendran, Broderick Hall, Shuen Mei, 2018-12-21

Build efficient data flow and machine learning programs with this flexible multi functional open source cluster computing framework

**Key Features** Master the art of real time big data processing and machine learning Explore a wide range of use cases to analyze large data Discover ways to optimize your work by using many features of Spark 2 x and Scala

**Book Description** Apache Spark is an in memory cluster based data processing system that provides a wide range of functionalities such as big data processing analytics machine learning and more With this Learning Path you can take your knowledge of Apache Spark to the next level by learning how to expand Spark s functionality and building your own data flow and machine learning programs on this platform You will work with the different modules in Apache Spark such as interactive querying with Spark SQL using DataFrames and datasets implementing streaming analytics with Spark Streaming and applying machine learning and deep learning techniques on Spark using MLlib and various external tools By the end of this elaborately designed Learning Path you will have all the knowledge you need to master Apache Spark and build your own big data processing and analytics pipeline quickly and without any hassle This Learning Path includes content from the following

Packt products Mastering Apache Spark 2 x by Romeo Kienzler Scala and Spark for Big Data Analytics by Md Rezaul Karim Sridhar Alla Apache Spark 2 x Machine Learning Cookbook by Siamak Amirghodsi Meenakshi Rajendran Broderick Hall Shuen Mei Cookbook What you will learn Get to grips with all the features of Apache Spark 2 x Perform highly optimized real time big data processing Use ML and DL techniques with Spark MLlib and third party tools Analyze structured and unstructured data using SparkSQL and GraphX Understand tuning debugging and monitoring of big data applications Build scalable and fault tolerant streaming applications Develop scalable recommendation engines Who this book is for If you are an intermediate level Spark developer looking to master the advanced capabilities and use cases of Apache Spark 2 x this Learning Path is ideal for you Big data professionals who want to learn how to integrate and use the features of Apache Spark and build a strong big data pipeline will also find this Learning Path useful To grasp the concepts explained in this Learning Path you must know the fundamentals of Apache Spark and Scala

[ICT for Smart Grid - Recent Advances, New Perspectives, and Applications](#) Abdelfatteh Haidine, 2024-07-03 Information and Communication Technology ICT plays a pivotal role in enabling and managing smart grids which are modernized electrical grids that leverage digital technologies for enhanced efficiency reliability and sustainability ICT serves as the backbone of smart grids enabling efficient reliable and sustainable electricity delivery while supporting the integration of renewable energy sources and promoting active consumer participation in grid operations The current book treats different aspects of ICT in smart grids The use of renewable energy sources is the core element of a sustainable energy infrastructure Therefore different chapters focus on microgrids Furthermore the book presents use cases for the use of microgrids in special environments such as educational buildings rural areas and the housing industries The Internet of Things IoT represents the paradigm to model any intelligent or smart system In such IoT system functionalities are organized in overlaid layers therefore it is called a layered model with a hierarchical structure The bottom layer covers the nationwide dispatched energy infrastructure The upper layer can be represented through either the service layer applications or business layers The book describes and analyzes technologies and solutions for the data layer as well as the communications networking level

**Taming Big Data with Spark Streaming and Scala--Hands On!** Frank Kane, 2016 Apache Spark has emerged as the most popular tool in the Big Data market for efficient real time analytics of Big Data Spanning over 5 hours this course will teach you the basics of Apache Spark and how to use Spark Streaming a module of Apache Spark which involves handling and processing of Big Data on a real time basis You will learn how to create Spark applications with Scala to process streams of real time data Whether you want to analyze continuously incoming website traffic analyze real time streams of Twitter feeds or query your streaming data in real time this course has got you covered You will also learn how to use the MLlib module of Spark to train machine learning models with streaming data and use those models to make real time predictions The course assumes some programming experience and uses Scala to develop Spark applications It includes a crash course in the Scala programming

language in case you re new to it Resource description page [The Cloud Data Lake](#) Rukmani Gopalan,2022-12-12 More organizations than ever understand the importance of data lake architectures for deriving value from their data Building a robust scalable and performant data lake remains a complex proposition however with a buffet of tools and options that need to work together to provide a seamless end to end pipeline from data to insights This book provides a concise yet comprehensive overview on the setup management and governance of a cloud data lake Author Rukmani Gopalan a product management leader and data enthusiast guides data architects and engineers through the major aspects of working with a cloud data lake from design considerations and best practices to data format optimizations performance optimization cost management and governance Learn the benefits of a cloud based big data strategy for your organization Get guidance and best practices for designing performant and scalable data lakes Examine architecture and design choices and data governance principles and strategies Build a data strategy that scales as your organizational and business needs increase Implement a scalable data lake in the cloud Use cloud based advanced analytics to gain more value from your data

[Empowering IoT with Big Data Analytics](#) Mohamed Adel Serhani,Yang Xu,Zakaria Maamar,2024-11-16 Empowering IoT with Big Data Analytics provides comprehensive coverage of major topics tools and techniques related to empowering IoT with big data technologies and big data analytics solutions thus allowing for better processing analysis protection distribution and visualization of data for the benefit of IoT applications and second a better deployment of IoT applications on the ground This book covers big data in the IoT era its application domains current state of the art in big data and IoT technologies standards platforms and solutions This book provides a holistic view of the big data value chain for IoT including storage processing protection distribution analytics and visualization Big data is a multi disciplinary topic involving handling intensive continuous and heterogeneous data retrieved from different sources including sensors social media and embedded systems The emergence of Internet of Things IoT and its application to many domains has led to the generation of huge amounts of both structured and unstructured data often referred to as big data Introduces fundamental concepts of big data analytics and their applications to IoT Helps readers learn to leverage big data storage processing and analysis tools and techniques to promote IoT applications for better decision making Explores federated learning in big data to ensure data privacy and handle data heterogeneity

[Smart Finance: Artificial Intelligence, Regulatory Compliance, and Data Engineering in the Transformation of Global Banking](#) Srinivasarao Paleti,2025-05-07 Global banking is in the midst of a profound digital transformation Emerging technologies changing customer expectations and evolving regulatory frameworks are forcing financial institutions to rethink how they operate compete and deliver value Smart Finance AI Regulatory Compliance and Data Engineering in the Transformation of Global Banking examines the forces reshaping the financial services industry and presents a comprehensive roadmap for leveraging artificial intelligence advanced data engineering and regulatory technologies RegTech to build resilient future ready banking systems Artificial intelligence has moved beyond

experimentation into mainstream adoption in banking from automating credit scoring and fraud detection to powering conversational banking and algorithmic trading Meanwhile the explosion of data and the need for secure compliant and real time processing have made data engineering and governance foundational to any modern financial operation As institutions navigate increasingly complex regulations and heightened scrutiny the role of AI and automation in compliance management has become not only strategic but essential This book brings together the technological regulatory and operational dimensions of smart finance It explores how AI driven analytics and decision systems are unlocking new opportunities in risk management customer personalization and financial planning It also highlights the critical importance of robust data pipelines scalable architectures and integrated compliance frameworks in ensuring trust transparency and efficiency in global banking operations With real world examples case studies and forward looking insights this book is designed for banking professionals technology leaders data scientists and policymakers seeking to understand and harness the transformative potential of intelligent finance It does not merely chronicle innovation it provides actionable strategies for thriving in a digital first regulation intensive landscape As the global banking industry stands at a pivotal crossroads the convergence of AI compliance and data engineering offers a unique opportunity to redefine finance as more intelligent inclusive and secure This book is both a guide and a vision for that future

Digital Twins for Smart Cities and Villages  
Sailesh Iyer, Anand Nayyar, Anand Paul, Mohd Naved, 2024-10-17 Digital Twins for Smart Cities and Villages provides a holistic view of digital twin technology and how it can be deployed to develop smart cities and smart villages Smart manufacturing smart healthcare smart education smart agriculture smart rural solutions and related methodologies using digital twins are discussed including challenges in deployment their solutions and future roadmaps This knowledge enriched by a variety of case studies presented in the book may empower readers with new capabilities for new research as well as new tasks and strategies for practical implementation and real world problem solving The book is thoughtfully structured starting from the background of digital twin concepts and basic know how to serve the needs of those new to the subject It continues with implementation to facilitate and improve management in several urban contexts infrastructures and more Global case study assessments further provide a deep characterization of the state of the art in digital twin in urban and rural contexts Uniquely focuses on applications for smart cities and villages including smart services for health education mobility and agriculture Provides use cases and practical deployment of research involved in the emerging uses of digital twins Discusses all pertinent issues challenges and possible solutions instrumental in implementing digital twins smart solutions in this context Edited and authored by a global team of experts in their given fields

Hands-on Guide to Apache Spark 3  
Alfonso Antolínez García, 2023-09-17 This book explains how to scale Apache Spark 3 to handle massive amounts of data either via batch or streaming processing It covers how to use Spark s structured APIs to perform complex data transformations and analyses you can use to implement end to end analytics workflows This book covers Spark 3 s new features theoretical

foundations and application architecture The first section introduces the Apache Spark ecosystem as a unified engine for large scale data analytics and shows you how to run and fine tune your first application in Spark The second section centers on batch processing suited to end of cycle processing and data ingestion through files and databases It explains Spark DataFrame API as well as structured and unstructured data with Apache Spark The last section deals with scalable high throughput fault tolerant streaming processing workloads to process real time data Here you ll learn about Apache Spark Streaming s execution model the architecture of Spark Streaming monitoring reporting and recovering Spark streaming A full chapter is devoted to future directions for Spark Streaming With real world use cases code snippets and notebooks hosted on GitHub this book will give you an understanding of large scale data analysis concepts and help you put them to use Upon completing this book you will have the knowledge and skills to seamlessly implement large scale batch and streaming workloads to analyze real time data streams with Apache Spark

**What You Will Learn** Master the concepts of Spark clusters and batch data processing Understand data ingestion transformation and data storage Gain insight into essential stream processing concepts and different streaming architectures Implement streaming jobs and applications with Spark Streaming

**Who This Book Is For** Data engineers data analysts machine learning engineers Python and R programmers

*Apache Spark 2* Romeo Kienzler, Rezaul Karim, Sridhar Alla, 2018-12-18 Build efficient data flow and machine learning programs with this flexible multi functional open source cluster computing framework

**Key Features** Master the art of real time big data processing and machine learning Explore a wide range of use cases to analyze large data Discover ways to optimize your work by using many features of Spark 2 x and Scala

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**Mastering Apache Spark 2 x** by Romeo Kienzler

**Scala and Spark for Big Data Analytics** by Md Rezaul Karim Sridhar Alla

**Apache Spark 2 x Machine Learning Cookbook** by Siamak Amirghodsi Meenakshi Rajendran Broderick Hall Shuen Mei

**Cookbook** What you will learn Get to grips with all the features of Apache Spark 2 x Perform highly optimized real time big data processing Use ML and DL techniques with Spark MLlib and third party tools Analyze structured and unstructured data using SparkSQL and GraphX Understand tuning debugging and monitoring of big data applications Build scalable and fault tolerant streaming applications Develop

scalable recommendation engines Who this book is for If you are an intermediate level Spark developer looking to master the advanced capabilities and use cases of Apache Spark 2 x this Learning Path is ideal for you Big data professionals who want to learn how to integrate and use the features of Apache Spark and build a strong big data pipeline will also find this Learning Path useful To grasp the concepts explained in this Learning Path you must know the fundamentals of Apache Spark and Scala

**Real Time Streaming Using Apache Spark Streaming** Tomasz Lelek,2017 Spark is the technology that allows us to perform big data processing in the MapReduce paradigm very rapidly due to performing the processing in memory without the need for extensive I O operations Recently the streaming approach to processing events in near real time became more widely adopted and more necessary In this course you will learn how to handle big amount of unbounded infinite streams of data You will analyze data and draw conclusions from it Furthermore we will look at common problems when processing event streams sorting watermarks deduplication and keeping state for example user sessions You will also implement streaming processing using Spark Streaming and analyze traffic on a web page in real time Resource description page

Big Data, Machine, and Deep Learning Rajesh Kumar Mishra,Divyansh Mishra,Rekha Agarwal,2025-04-11 Scientific Study from the year 2025 in the subject Computer Sciences Artificial Intelligence language English abstract In recent times developments in artificial intelligence AI and machine learning ML have propelled improvements in systems and control engineering We exist in a time of extensive data where AI and ML can evaluate large volumes of information instantly to enhance efficiency and precision in decisions based on data In control engineering for instance AI algorithms can anticipate system behaviors and autonomously modify controls to enhance performance for better efficiency and dependability ML models with their ability to learn consistently enhance their predictions and choices as they handle additional data enabling systems to dynamically adjust to evolving environments and operational circumstances This swift adjustment enhances the functions of current systems and enables the creation of groundbreaking solutions like self driving cars and intelligent power grids which were previously deemed unfeasible The rapid expansion of digital data has propelled significant advancements in Big Data analytics Machine Learning and Deep Learning These technologies are increasingly integrated across industries facilitating automated decision making predictive modeling and advanced pattern recognition This chapter provides an in depth review of recent progress in these domains emphasizing breakthroughs in scalable data processing frameworks cloud and edge computing AutoML explainable AI transformer architectures self supervised learning and generative models Furthermore it explores key applications in healthcare finance and autonomous systems along with challenges such as data privacy ethical concerns and computational constraints The discussion concludes with future directions highlighting the potential of federated learning neuromorphic computing and novel algorithmic improvements to further expand AI s impact across disciplines

Advanced Analytics and Real-time Data Processing in Apache Spark Tomasz Lelek,2018 This comprehensive tutorial will acquaint you with all the aspects of real time analytics with Apache Spark one of the trending Big

Data processing frameworks on the market today It will show you how to leverage the features of various components of the Spark framework to efficiently process analyze and visualize your data You will learn how to implement the high velocity streaming operation for data processing in order to perform efficient analytics on your real time data You ll analyze data using machine learning techniques and graphs You ll learn about Spark Streaming and create real world streaming processing that address all the problems that need to be solved You ll solve problems using Machine Learning techniques and find out about all the tools available in the MLlibtoolkit You ll find out how to leverage Graphs to solve real world problems At the end of this video you ll also see some useful Machine Learning algorithms with the help of Spark MLlib and will integrate Spark with R We ll also make sure you re confident and prepared for graph processing as you ll learn more about the GraphX API By the end you ll be well versed in the aspects of real time analytics and implement them with Apache Spark Resource description page *Mastering Apache Spark* Cybellium,2023-09-26 Unleash the Potential of Distributed Data Processing with Apache Spark Are you prepared to venture into the realm of distributed data processing and analytics with Apache Spark Mastering Apache Spark is your comprehensive guide to unlocking the full potential of this powerful framework for big data processing Whether you re a data engineer seeking to optimize data pipelines or a business analyst aiming to extract insights from massive datasets this book equips you with the knowledge and tools to master the art of Spark based data processing Key Features 1 Deep Dive into Apache Spark Immerse yourself in the core principles of Apache Spark comprehending its architecture components and versatile functionalities Construct a robust foundation that empowers you to manage big data with precision 2 Installation and Configuration Master the art of installing and configuring Apache Spark across diverse platforms Learn about cluster setup resource allocation and configuration tuning for optimal performance 3 Spark Core and RDDs Uncover the core of Spark Resilient Distributed Datasets RDDs Explore the functional programming paradigm and leverage RDDs for efficient and fault tolerant data processing 4 Structured Data Processing with Spark SQL Delve into Spark SQL for querying structured data with ease Learn how to execute SQL queries perform data manipulations and tap into the power of DataFrames 5 Streamlining Data Processing with Spark Streaming Discover the power of real time data processing with Spark Streaming Learn how to handle continuous data streams and perform near real time analytics 6 Machine Learning with MLlib Master Spark s machine learning library MLlib Dive into algorithms for classification regression clustering and recommendation enabling you to develop sophisticated data driven models 7 Graph Processing with GraphX Embark on a journey through graph processing with Spark s GraphX Learn how to analyze and visualize graph data to glean insights from complex relationships 8 Data Processing with Spark Structured Streaming Explore the world of structured streaming in Spark Learn how to process and analyze data streams with the declarative power of DataFrames 9 Spark Ecosystem and Integrations Navigate Spark s rich ecosystem of libraries and integrations From data ingestion with Apache Kafka to interactive analytics with Apache Zeppelin explore tools that enhance Spark s

capabilities 10 Real World Applications Gain insights into real world use cases of Apache Spark across industries From fraud detection to sentiment analysis discover how organizations leverage Spark for data driven innovation Who This Book Is For Mastering Apache Spark is a must have resource for data engineers analysts and IT professionals poised to excel in the world of distributed data processing using Spark Whether you re new to Spark or seeking advanced techniques this book will guide you through the intricacies and empower you to harness the full potential of this transformative framework **Spark Analytics for Real-time Data Processing** Nishant Garg,2018 This tutorial is focused on analytics and real time data processing using Apache Spark You will begin with Spark SQL using the Spark SQL API and built in functions within Apache Spark you will go through some interactive analysis and look at some integrations between Spark and Java Scala Python You will explore Spark Streaming streaming context and DStreams You will learn how Spark streaming works on top of the Spark core thus inheriting its features You will stream data and also learn best practices for managing high velocity streaming and external data sources By the end of this course you will be able to load data from a variety of structured sources for example JSON Hive and Parquet using Spark SQL and schema RDDs and will perform real time data processing Resource description page

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