

# Get Free Spring For Apache Kafka

## Spring For Apache Kafka

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example in 5 mins Livestreams 002: Kafka Streams,  
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What is Apache Kafka \u0026 Apache Kafka Publisher

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Example using SpringBoot | Java TechieSimple Kafka  
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Techie ~~Spring For Apache Kafka~~~~

The Spring for Apache Kafka (spring-kafka) project  
applies core Spring concepts to the development of  
Kafka-based messaging solutions. It provides a  
"template" as a high-level abstraction for sending  
messages. It also provides support for Message-driven

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POJOs with @KafkaListener annotations and a "listener container". These libraries promote the use of dependency injection and declarative.

## ~~Spring for Apache Kafka~~

The Spring for Apache Kafka project applies core Spring concepts to the development of Kafka-based messaging solutions. We provide a "template" as a high-level abstraction for sending messages. We also provide support for Message-driven POJOs.

## ~~Spring for Apache Kafka~~

Apache Kafka is a distributed and fault-tolerant stream processing system. In this article, we'll cover

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Spring support for Kafka and the level of abstractions it provides over native Kafka Java client APIs.

~~Intro to Apache Kafka with Spring | Baeldung~~  
Spring Boot Apache Kafka By Dhiraj, Last updated on: 30 March, 2020 30K In my last article, we created a sample Java and Apache Kafka subscriber and producer example. In this article, we will be using the spring boot 2 feature to develop a sample Kafka subscriber and producer application.

~~Spring Boot Apache Kafka | DevGlan~~  
Things you need: Apache Kafka Spring boot application Lets start by downloading Kafka, here is

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the link to download page Extract the zip file and go to the root folder and open command prompt.

~~Spring boot with Apache Kafka. Although there are many ...~~

Learn to create a spring boot application which is able to connect a given Apache Kafka broker instance.

Also, learn to produce and consumer messages from a Kafka topic. Steps we will follow: Create Spring boot application with Kafka dependencies

~~Spring Boot with Kafka Hello World Example  
HowToDoInJava~~

Kafka is a stream-processing platform built by

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LinkedIn and currently developed under the umbrella of the Apache Software Foundation. Kafka aims to provide low-latency ingestion of large amounts of event data. We can use Kafka when we have to move a large amount of data and process it in real-time. An example would be when we want to process user behavior on our website to generate product suggestions or monitor events produced by our micro-services.

~~Using Kafka with Spring Boot - Reflectoring~~  
Working on Kafka Stream with Spring Boot is very easy! Spring Boot does all the heavy lifting with its auto configuration. I create a simple bean which will



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produce a number every second. If the bean type is supplier, Spring Boot treats it as a producer.

~~Kafka Stream With Spring Boot - Real Time Data Processing ...~~

```
Start Apache Zookeeper- C:\kafka_2.12-0.10.2.1>.\bin
\windows\zookeeper-server-start.bat
.\config\zookeeper.properties Start Apache Kafka- C:\k
afka_2.12-0.10.2.1>.\bin\windows\kafka-server-
start.bat .\config\server.properties Next start the
Spring Boot Application by running it as a Java
Application.
```

~~Spring Boot - Apache Kafka Hello World Example -~~

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~~JavalnUse~~

Spring Boot - Apache Kafka. Apache Kafka is an open source project used to publish and subscribe the messages based on the fault-tolerant messaging system. It is fast, scalable and distributed by design. If you are a beginner to Kafka, or want to gain a better understanding on it, please refer to this link – [www.tutorialspoint.com/apache\\_kafka/](http://www.tutorialspoint.com/apache_kafka/).

~~Spring Boot — Apache Kafka — Tutorialspoint~~

Starting with version 1.1.4, Spring for Apache Kafka provides first-class support for Kafka Streams. To use it from a Spring application, the kafka-streams jar must be present on classpath. It is an optional

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dependency of the spring-kafka project and is not downloaded transitively.

## ~~Spring for Apache Kafka~~

Apache Kafka is a software platform which is based on a distributed streaming process. It is a publish-subscribe messaging system which let exchanging of data between applications, servers, and processors as well. Apache Kafka was originally developed by LinkedIn, and later it was donated to the Apache Software Foundation.

## ~~Apache Kafka Tutorial - javatpoint~~

To learn about how to handle deserialization issues

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that are not covered above, read this post on Spring for Apache Kafka—beyond the basics. Based on the above outline for some of the error handlers, the `SeekToCurrentErrorHandler` is the best to select for the `KafkaListener` in record mode.

## ~~Advanced Testing Techniques for Spring Kafka~~

Apache Kafka: what it is and why? As described on its website, "Apache Kafka is an open-source distributed event streaming platform used by thousands of companies for high-performance data pipelines, streaming analytics, data integration, and mission-critical applications." Said otherwise, Kafka is a message queue software on steroids. Its ...

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~~Emailing microservice with Apache Kafka and Spring Boot ...~~

Apache Kafka is exposed as a Spring XD source - where data comes from - and a sink - where data goes to. Spring XD exposes a super convenient DSL for creating bash -like pipes-and-filter flows. Spring XD is a centralized runtime that manages, scales, and monitors data processing jobs.

~~Using Apache Kafka for Integration and Data ...~~  
Spring

Apache Kafka and Spring Boot (Consumer, Producer)  
In this course Apache Kafka and Spring Boot will be

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used to establish communication between them.

~~Free Spring Boot Tutorial - Apache Kafka and Spring Boot ...~~

The Spring Apache Kafka (spring-kafka) provides a high-level abstraction for Kafka-based messaging solutions. And Spring Boot 1.5 includes auto-configuration support for Apache Kafka via the spring-kafka project. So in the tutorial, JavaSampleApproach will show you how to start Spring Apache Kafka Application with SpringBoot.

~~How to start Spring Apache Kafka Application with ...~~  
We are going to create a Spring Boot application with

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Spring Web and Spring for Apache Kafka dependencies and use Spring Initializr to generate our project quickly.

Discover the real power of Spring Framework 5.0 and learn to create powerful applications in its newest version Key Features Learn reactive programming by implementing a reactive application with Spring Webflux Create a robust and scalable messaging application with Spring messaging support Apply your knowledge to build three real-world projects in Spring Book Description With growing demands,

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organizations are looking for systems that are robust and scalable. Therefore, the Spring Framework has become the most popular framework for Java development. It not only simplifies software development but also improves developer productivity. This book covers effective ways to develop robust applications in Java using Spring. The book has three parts, where each one covers the building of a comprehensive project in Java and Spring. In the first part, you will construct a CMS Portal using Spring's support for building REST APIs. You will also learn to integrate these APIs with AngularJS and later develop this application in a reactive fashion using Project Reactor, Spring



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WebFlux, and Spring Data. In the second part, you'll understand how to build a messaging application, which will consume the Twitter API and perform filtering and transformations. Here, you will also learn about server-sent events and explore Spring's support for Kotlin, which makes application development quick and efficient. In the last part, you will build a real microservice application using the most important techniques and patterns such as service discovery, circuit breakers, security, data streams, monitoring, and a lot more from this architectural style. By the end of the book, you will be confident about using Spring to build your applications. What you will learn Implement REST APIs with Spring REST

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support Introduce the Spring Boot and understand how it makes creating robust applications extremely simple Understand how Spring Data helps us add persistence in MongoDB and SQL databases Introduce Reactive Programming and use this with Spring Webflux Implement a Reactive REST client and learn how it can create asynchronous applications Create a robust, scalable, and fault tolerant application with Spring Messaging Implement a websocket to add interactive behaviors in your applications Introduce the Spring Cloud projects Who this book is for If you're a developer starting out with Spring, then this book will help you learn about the new Spring 5.0 framework concepts followed by their implementation

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in Java and Kotlin. The book will also help experienced Spring developers gain insights into the new features added in Spring 5.0.

Develop diverse real-life projects including most aspects of Spring Boot Key Features Run production-grade based applications using the Spring WebFlux framework Learn to develop high performance, asynchronous applications with Spring Boot Create robust microservice-based applications with Kotlin using Spring Boot Book Description Spring is one of the best tools available on the market for developing web, enterprise, and cloud-ready software. The goal of Spring Boot is to provide a set of tools for quickly

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building Spring applications that are easy to configure, and that make it easy to create and run production-grade Spring-based applications. Spring Boot 2.0 Projects will get you acquainted with important features of the latest version of this application-building tool and will cover basic, as well as advanced topics. The book starts off by teaching you how to create a web application using Spring Boot, followed by creating a Spring Boot-based simple blog management system that uses Elasticsearch as the data store. As you make your way through the chapters, you'll build a RESTful web services application using Kotlin and the Spring WebFlux framework. Spring WebFlux is a new framework that

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helps in creating a reactive application in a functional way. Toward the end of the book, you will build a taxi-hailing API with reactive microservices using Spring Boot and a Twitter clone with a Spring Boot backend. Finally, you'll learn how to build an asynchronous email formatter. What you will learn

Learn the fundamental features of Spring Boot 2.0  
Customize Spring Boot 2.0 applications  
Build a basic web application  
Use Redis to build a taxi-hailing API  
Create a simple blog management system and a Twitter clone  
Develop a reactive RESTful web service with Kotlin using Spring Boot

Who this book is for  
This book is for competent Spring developers who wish to understand how to develop complex yet scalable

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applications with Spring Boot. You must have a good knowledge of Java programming and be familiar with the basics of Spring.

An end-to-end software development guide for the Java eco-system using the most advanced frameworks: Spring and Spring Boot. Learn the complete workflow by building projects and solving problems. About This Book Learn reactive programming by implementing a reactive application with Spring WebFlux Create a robust and scalable messaging application with Spring messaging support Get up-to-date with the defining characteristics of Spring Boot 2.0 in Spring Framework 5 Learn about

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developer tools, AMQP messaging, WebSockets, security, MongoDB data access, REST, and more This collection of effective recipes serves as guidelines for Spring Boot application development Who This Book Is For Java developers wanting to build production-grade applications using the newest popular Spring tools for a rich end-to-end application development experience. What You Will Learn Get to know the Spring Boot and understand how it makes creating robust applications extremely simple Understand how Spring Data helps us add persistence in MongoDB and SQL databases Implement a websocket to add interactive behaviors in your applications Create powerful, production-grade applications and services

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with minimal fuss Use custom metrics to track the number of messages published and consumed Build anything from lightweight unit tests to fully running embedded web container integration tests Learn effective testing techniques by integrating Cucumber and Spock Use Hashicorp Consul and Netflix Eureka for dynamic Service Discovery In Detail Spring Framework has become the most popular framework for Java development. It not only simplifies software development but also improves developer productivity. This book covers effective ways to develop robust applications in Java using Spring. The course is up made of three modules, each one having a take-away relating to building end-to-end java



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applications. The first module takes the approach of learning Spring frameworks by building applications. You will learn to build APIs and integrate them with popular frameworks such as AngularJS, Spring WebFlux, and Spring Data. You will also learn to build microservices using Spring's support for Kotlin. You will learn about the Reactive paradigm in the Spring architecture using Project Reactor. In the second module, after getting hands-on with Spring, you will learn about the most popular tool in the Spring ecosystem-Spring Boot. You will learn to build applications with Spring Boot, bundle them, and deploy them on the cloud. After learning to build applications with Spring Boot, you will be able to use

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various tests that are an important part of application development. We also cover the important developer tools such as AMQP messaging, websockets, security, and more. This will give you a good functional understanding of scalable development in the Spring ecosystem with Spring Boot. In the third and final module, you will tackle the most important challenges in Java application development with Spring Boot using practical recipes. Including recipes for testing, deployment, monitoring, and securing your applications. This module will also address the functional and technical requirements for building enterprise applications. By the end of the course you will be comfortable with using Spring and Spring Boot

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to develop Java applications and will have mastered the intricacies of production-grade applications. Style and approach A simple step-by-step guide with practical examples to help you develop and deploy Spring and Spring Boot applications in the real-world.

Kafka in Action is a practical, hands-on guide to building Kafka-based data pipelines. Filled with real-world use cases and scenarios, this book probes Kafka's most common use cases, ranging from simple logging through managing streaming data systems for message routing, analytics, and more. In systems that handle big data, streaming data, or fast data, it's important to get your data pipelines right. Apache

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Kafka is a wicked-fast distributed streaming platform that operates as more than just a persistent log or a flexible message queue. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Spring Boot 2.3 is the hottest ticket in town... ..when it comes to Java development. Learn the latest features that can scale your apps including: \* Web and Data access \* Developer tools and test support \* Operational features \* Docker container baking \* Bottleneck discovery with BlockHound \* Messaging \* Security \* More! Written cover-to-cover using Project Reactor, your apps will scale like never before. Grab

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your copy today and learn to build top-notch, scalable solutions with modern tactics. Greg L. Turnquist works on the Spring team as a principal developer at VMware. He is a committer to Spring HATEOAS, Spring Data, Spring Boot, R2DBC, and Spring Session for MongoDB. He also wrote Packt's best-selling title, Learning Spring Boot 2.0 2nd Edition. He co-founded the Nashville Java User Group in 2010 and hasn't met a Java app (yet) that he doesn't like. Follow him on Twitter @gregturn and subscribe for all his Spring Boot videos at [YouTube.com/GregTurnquist](https://YouTube.com/GregTurnquist).

Learn how to build, test, secure, deploy, and efficiently consume services across distributed

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systems. Key Features - Explore the wealth of options provided by Spring Cloud for wiring service dependencies in microservice systems. - Create microservices utilizing Spring Cloud's Netflix OSS - Architect your cloud-native data using Spring Cloud. Book Description Developing, deploying, and operating cloud applications should be as easy as local applications. This should be the governing principle behind any cloud platform, library, or tool. Spring Cloud—an open-source library—makes it easy to develop JVM applications for the cloud. In this book, you will be introduced to Spring Cloud and will master its features from the application developer's point of view. This book begins by introducing you to

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microservices for Spring and the available feature set in Spring Cloud. You will learn to configure the Spring Cloud server and run the Eureka server to enable service registration and discovery. Then you will learn about techniques related to load balancing and circuit breaking and utilize all features of the Feign client. The book now delves into advanced topics where you will learn to implement distributed tracing solutions for Spring Cloud and build message-driven microservice architectures. Before running an application on Docker containers, you will master testing and securing techniques with Spring Cloud. What you will learn - Abstract Spring Cloud's feature set - Create microservices utilizing Spring Cloud's

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Netflix OSS - Create synchronous API microservices based on a message-driven architecture. - Explore advanced topics such as distributed tracing, security, and contract testing. - Manage and deploy applications on the production environment Who this book is for This book appeals to developers keen to take advantage of Spring cloud, an open source library which helps developers quickly build distributed systems. Knowledge of Java and Spring Framework will be helpful, but no prior exposure to Spring Cloud is required.

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing



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messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol,

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the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage Kafka in production, and learn to perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among Kafka's operational measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems

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Explore the reactive system and create efficient microservices with Spring Boot 2.1 and Spring Cloud Key Features Understand the kind of system modern businesses require with Spring Gain deeper insights into reactive programming with Reactor and Spring Cloud Get in-depth knowledge on asynchronous and nonblocking communication with Spring 5 WebFlux Book Description These days, businesses need a new type of system that can remain responsive at all times. This is achievable with reactive programming; however, the development of these kinds of systems is a complex task, requiring a deep understanding of the domain. In order to develop highly responsive systems, the developers of the Spring Framework

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came up with Project Reactor. Hands-On Reactive Programming in Spring 5 begins with the fundamentals of Spring Reactive programming. You'll explore the endless possibilities of building efficient reactive systems with the Spring 5 Framework along with other tools such as WebFlux and Spring Boot. Further on, you'll study reactive programming techniques and apply them to databases and cross-server communication. You will advance your skills in scaling up Spring Cloud Streams and run independent, high-performant reactive microservices. By the end of the book, you will be able to put your skills to use and get on board with the reactive revolution in Spring 5.1! What you will learn Discover the difference

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between a reactive system and reactive programming  
Explore the benefits of a reactive system and  
understand its applications Get to grips with using  
reactive programming in Spring 5 Gain an  
understanding of Project Reactor Build a reactive  
system using Spring 5 and Project Reactor Create a  
highly efficient reactive microservice with Spring  
Cloud Test, monitor, and release reactive applications  
Who this book is for This book is for Java developers  
who use Spring to develop their applications and want  
to build robust and reactive applications that can  
scale in the cloud. Basic knowledge of distributed  
systems and asynchronous programming will help you  
understand the concepts covered in this book.

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Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/ AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally,

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Spring web recipes cover Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services, and more. You'll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get reusable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services

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development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers.

Summary Spring in Action, 5th Edition is the fully updated revision of Manning's bestselling Spring in Action. This new edition includes all Spring 5.0 updates, along with new examples on reactive programming, Spring WebFlux, and microservices. You'll also find the latest Spring best practices,



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including Spring Boot for application setup and configuration. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Spring Framework makes life easier for Java developers. New features in Spring 5 bring its productivity-focused approach to microservices, reactive development, and other modern application designs. With Spring Boot now fully integrated, you can start even complex projects with minimal configuration code. And the upgraded WebFlux framework supports reactive apps right out of the box! About the Book Spring in Action, 5th Edition guides you through Spring's core features, explained in Craig Walls' famously clear style. You'll

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roll up your sleeves and build a secure database-backed web app step by step. Along the way, you'll explore reactive programming, microservices, service discovery, RESTful APIs, deployment, and expert best practices. Whether you're just discovering Spring or leveling up to Spring 5.0, this Manning classic is your ticket! What's inside Building reactive applications Spring MVC for web apps and RESTful web services Securing applications with Spring Security Covers Spring 5.0 Over 100,000 copies sold! About the Reader For intermediate Java developers. About the Author Craig Walls is a principal software engineer at Pivotal, a popular author, an enthusiastic supporter of Spring Framework, and a frequent conference

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speaker. Table of Contents PART 1 - FOUNDATIONAL SPRING Getting started with Spring Developing web applications Working with data Securing Spring Working with configuration properties PART 2 - INTEGRATED SPRING Creating REST services Consuming REST services Sending messages asynchronously Integrating Spring PART 3 - REACTIVE SPRING Introducing Reactor Developing reactive APIs Persisting data reactively PART 4 CLOUD-NATIVE SPRING Discovering services Managing configuration Handling failure and latency PART 5 - DEPLOYED SPRING Working with Spring Boot Actuator Administering Spring Monitoring Spring with JMX Deploying Spring

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