RxJava is a Java VM implementation of <u>ReactiveX (Reactive Extensions)</u>: a library for composing asynchronous and event-based programs by using observable sequences.

For more information about ReactiveX, see the Introduction to ReactiveX page.

RxJava is Lightweight

RxJava tries to be very lightweight. It is implemented as a single JAR that is focused on just the Observable abstraction and related higher-order functions.

RxJava is a Polyglot Implementation

RxJava supports Java 6 or higher and JVM-based languages such as Groovy, Clojure, JRuby, Kotlin and Scala.

RxJava is meant for a more polyglot environment than just Java/Scala, and it is being designed to respect the idioms of each JVM-based language. (This is something we're still working on.)

RxJava Libraries

The following external libraries can work with RxJava:

- Hystrix latency and fault tolerance bulkheading library.
- <u>Camel RX</u> provides an easy way to reuse any of the <u>Apache Camel components</u>, <u>protocols</u>, <u>transports and data formats</u> with the RxJava API
- <u>rxjava-http-tail</u> allows you to follow logs over HTTP, like tail -f
- mod-rxvertx Extension for VertX that provides support for Reactive Extensions (RX) using the RxJava library
- <u>rxjava-jdbc</u> use RxJava with jdbc connections to stream ResultSets and do functional composition of statements
- rtree immutable in-memory R-tree and R*-tree with RxJava api including backpressure