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## RxJava

(3 days)

### Course overview

RxJava is the Reactive Extensions library for the JVM. RxJava makes it easy to composing asynchronous and event-based programs using observable sequences of data in Java applications. This course takes a detailed look at the RxJava API and explores various patterns and techniques to ensure you make the most of concurrency, parallelism, and data throttling.

### What you'll learn

- The Reactive Manifesto
- RxJava architectural patterns
- Working with observable data sources
- Functional programming
- Concurrency
- Managing data throughput

### Prerequisites

- At least 6 months Java programming experience

### Course details

- [Introduction to RxJava](#): Overview of Reactive Systems; Overview of RxJava; Going Further with RxJava Observables
- [Functional Programming](#): Essential Concepts; Functional Programming in Java
- [A Closer Look at Observables](#): Observable Data Sources; Defining a Custom Observer; Defining Custom Call-back Semantics; Hot and Cold Observables
- [Manipulating Data](#): Filtering and Fetching Items; Transforming Items; Accumulating Values
- [Combinators, Conditionals and Error Handling](#): Combining Observables; Conditional Operators; Handling Errors
- [Concurrency and Parallelism](#): Core Concepts; A Closer Look at Schedulers; Types of Schedulers Available
- [Managing Data Throughput](#): Understanding the Problem; Throttling; Using Buffers and Windows