Full Stack Reactive Java

With Spring Framework 5, Spring Boot 2, & Project Reactor

Mark Heckler
Principal Technologist, Spring Developer Advocate
www.thehecklers.com
mark@thehecklers.com
mheckler@pivotal.io
@mkheck

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Who am I?

- Author
- Speaker
- Architect & Developer
- Java Champion
- Seeker of a better way

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"In a nutshell reactive programming is about **non-blocking, event-driven applications** that **scale with a small number of threads** with **backpressure as a key ingredient** that aims to ensure producers do not overwhelm consumers."

–Rossen Stoyanchev, Project Reactor team

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Reactive Streams: 4 interfaces

- Publisher<T>

- Subscriber<T>

- Subscription

- Processor<T,R>

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Project Reactor: a quick overview

REACTIVE CORE

Reactor is a **fully non-blocking** foundation with efficient demand management. It directly interacts with Java 8 *functional API*, *Completable Future*, *Stream* and *Duration*.

TYPED [0|1|N] SEQUENCES

Reactor offers **2 reactive composable API** Flux [N] and Mono [0|1] extensively implementing Reactive Extensions.

NON BLOCKING IPC

Suited for **Microservices** Architecture, Reactor IPC offers **backpressure-ready network engines** for HTTP (including Websockets), TCP and UDP. Reactive Encoding/Decoding is fully supported.
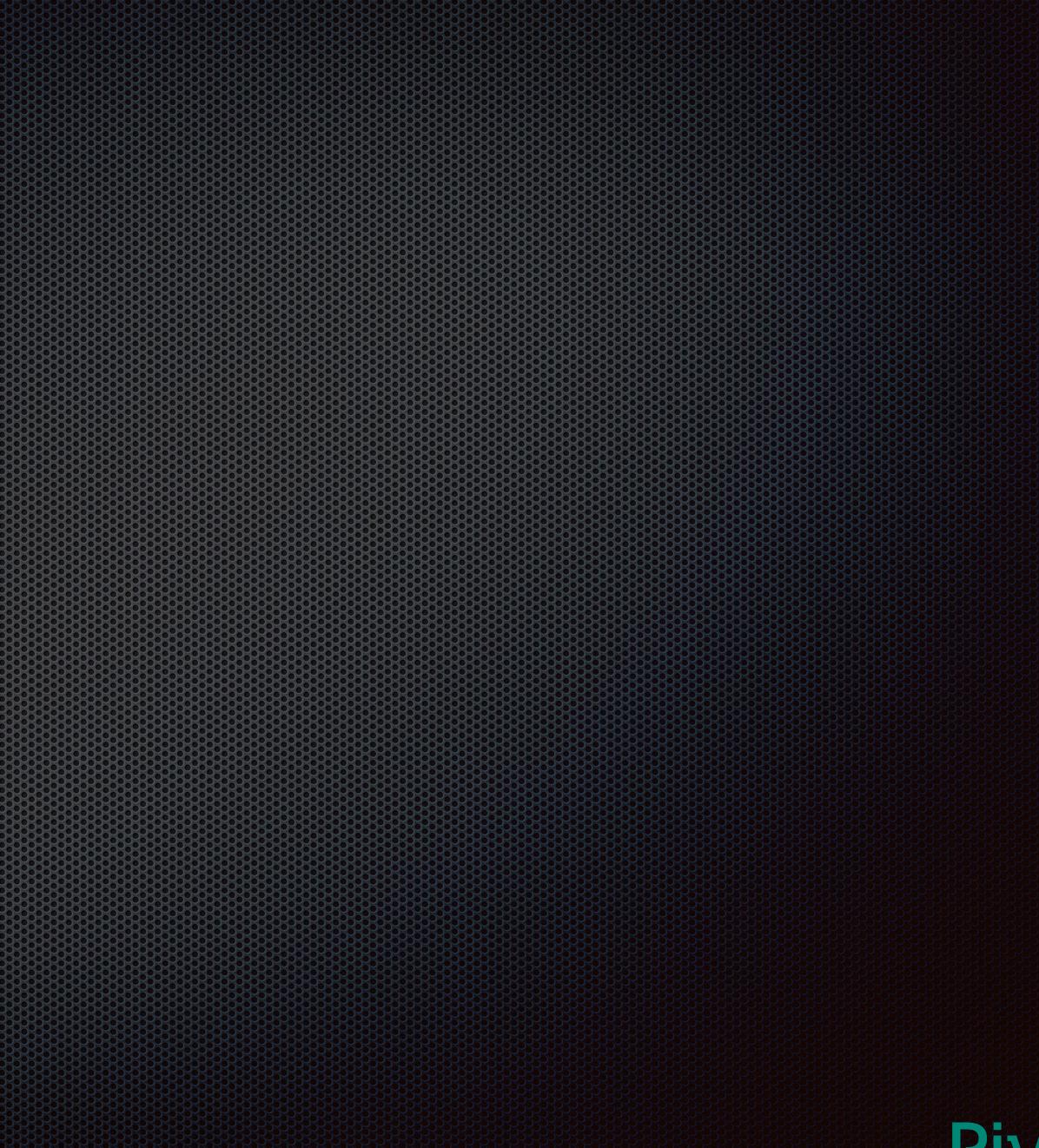
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Let's code!

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Helpful resources

- http://www.reactive-streams.org

- https://projectreactor.io

- https://github.com/mkheck/FSRx

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Thanks for coming!

@mkheck
mark@thehecklers.com
mheckler@pivotal.io

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