Full Stack Reactive Jawa

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

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Who am I?

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



"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



Reactive Streams: 4 interfaces

- Publisher<T>
- Subscriber<T>
- Subscription
- Processor<T,R>

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.



Let's code!



@mkheck @springcentral @projectreactor

Pivotal

Helpful resources

- http://www.reactive-streams.org
- https://projectreactor.io
- https://github.com/mkheck/flux-flix-intro
- https://github.com/joshlong/flux-flix-service



Thanks for coming!

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