

Observing Spring for GraphQL in Action





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BRIAN CLOZEL VMware

Spring Framework and Spring for GraphQL teams Currently working with the Observability team

https://spring.io/team/bclozel







ROSSEN STOYANCHEV

VMware

Spring Framework and Spring for GraphQL teams

Focus on web development

Less frequently RSocket, Reactor, Spring Web Flow

https://spring.io/team/rstoyanchev





Agenda

Architect's view of GraphQL and Spring

What's changed over the past year

Demo

Where to next?





HTTP Protocol

Many URLs, headers, cookies, media types

Web Layer

@Controller@RequestMapping methods

Application

@Service, @Repository





Exposing data with GraphQL

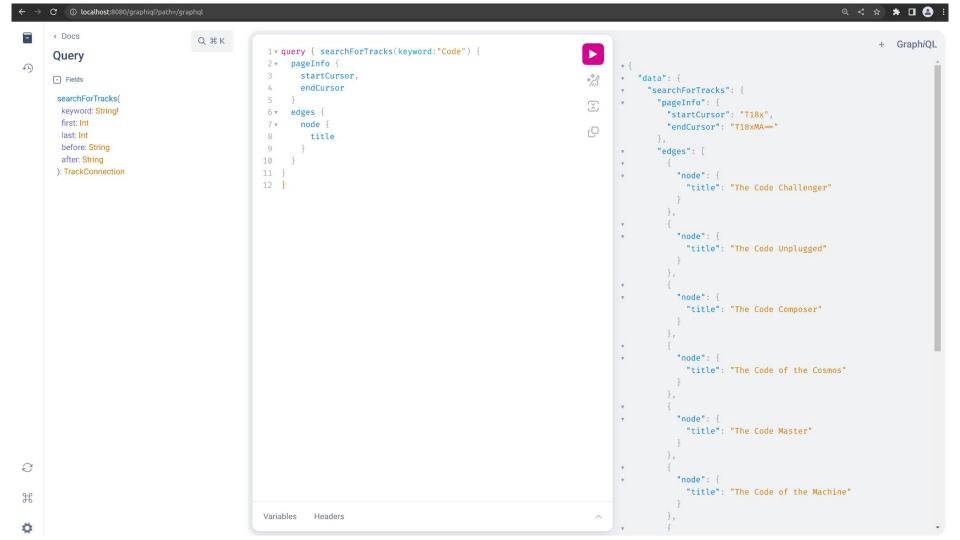
Schema, query language

Hierarchical, strongly typed, introspective

Client-specified response









GraphQL <language> engine

Parse requests, validate syntax, orchestrate data fetching







GraphQL Java

Parse requests, validate syntax, orchestrate data fetching (field by field)

DataFetcher

Data layer

@Controller, @SchemaMapping methods

Application

@Service, @Repository





Single endpoint

HTTP

WebSocket

RSocket

GraphQL Java

Parse requests, validate syntax, orchestrate data fetching

Data layer

@Controller, @SchemaMapping methods

Application

@Service, @Repository







Spring Framework 6 Java 17, Jakarta EE migration





Focus on baseline for Spring Framework 6

Java 17 and Jakarta EE

AOT/Native

Micrometer, observability





Input Argument Handling

Constructor or setters, nested structure since 1.0

JSON → DataBinder → self-sufficient

Argument Value (null vs omitted)





Controller Method Validation

Built-in support since 1.0

Startup checks if controller method has constraints

Validation groups with @Validated





@GraphQlExceptionHandler methods

Pagination and sorting

Schema mapping inspection





DEMO TIME



https://github.com/bclozel/graphgl-music





Where to next?

Version 1.3 in November 2023

Continue to evolve programming model

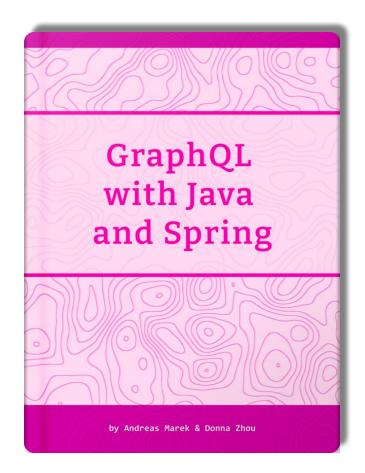
Community feedback







ANDREAS MAREKGraphQL Java founder





DONNA ZHOUGraphQL Java committer





THANK YOU! Q&A

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