Spring.next() – what can we expect

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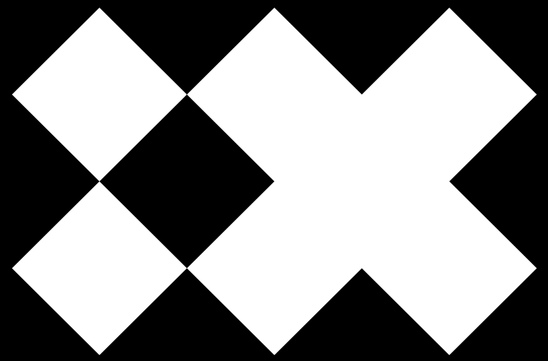
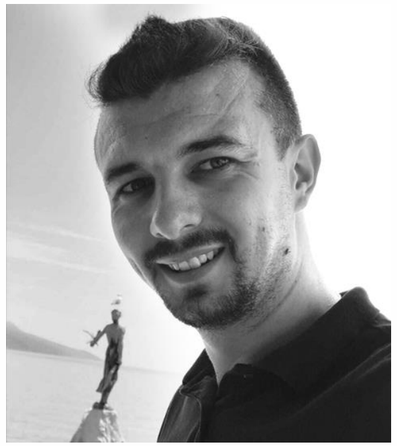
JavaCRO 2022, Autumn

10.10.2022

IBM iX



Hello!



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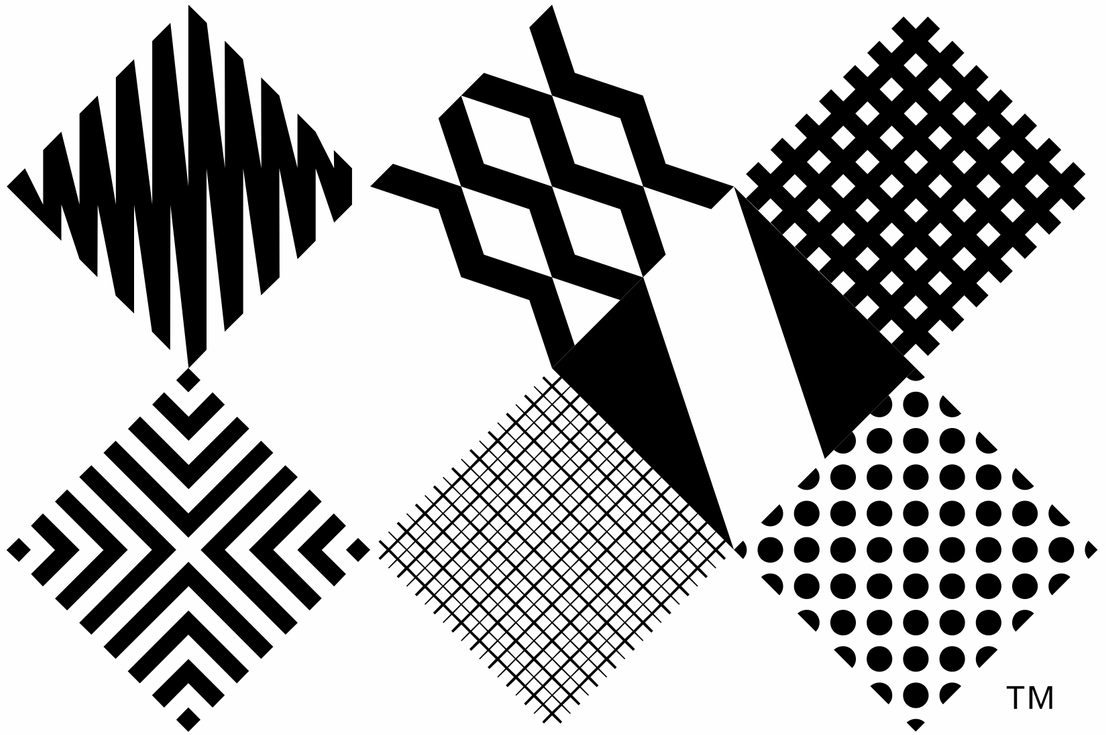
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Our agenda

1) Spring Framework 6.0 overview – Java 17
2) Simple changes
3) HTTP Clients
4) Spring Cloud Observability

Spring framework 6.0
Short overview

Spring framework 6.0
Dependencies

- Java 17
- Kotlin 1.7+
- Lombok 1.18.22+
- Gradle 7.3+

Java 17
Records

```
public record Person (String name, String address) {}
```

Java 17
Text blocks

```
String textBlock = """
  It is really cool
  that we can finally write
  multi-line
  text block.
  """;
```

Java 17
Switch Expressions & Pattern matching

```
DayOfWeek day = DayOfWeek.FRIDAY;
int numOfLetters = switch (day) {
  case MONDAY, FRIDAY, SUNDAY -> 6;
  case TUESDAY                -> 7;
  case THURSDAY, SATURDAY     -> 8;
  case WEDNESDAY              -> 9;
};

return switch (obj) {
  case Integer i -> "It is an integer";
  case String s -> "It is a string";
  case Employee employee &&
employee.getDept().equals("IT") -> "IT Employee";
  default -> "It is none of the known data types";
};

case null -> "It is a null object";
```

Java 17
Sealed Classes & Interfaces

```
public abstract sealed class Pet permits Dog, Cat {}
```

Simple changes

Jakarta EE 9
Changes in packages

Example:

```
import javax.servlet.http.HttpServletRequest;
```

replace with

```
import jakarta.servlet.http.HttpServletRequest;
```

Spring Web MVC
Small changes

- No need to include separate libs like Zalando Problem

- HttpMethod is not an enum but a class
  - HttpMethod lock = HttpMethod.*valueOf*("LOCK");

- StandardServletMultipartReolsver instead of ~~Commons FileUpload~~
- FreeMarker template views instead of ~~FreeMarker JSP~~

HTTP Clients

Declarative HTTP interface
DEMO ;)

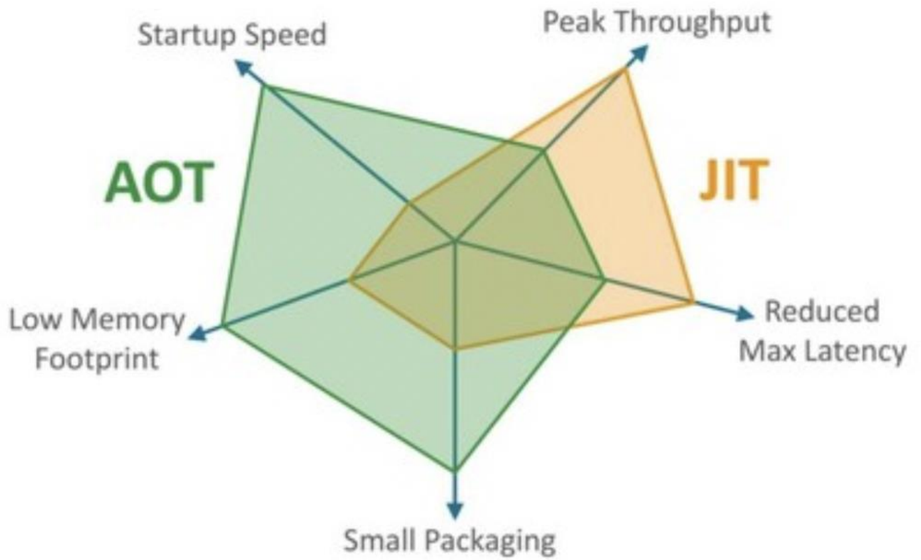
Spring Cloud Observability

Spring Native

- Spring Native moving to Spring 6
- Compatibility
- Native configuration files
- AOT plugin – AOT transformations

Support for GraalVM

META-INF/native-image/resource-config.json
META-INF/native-image/reflect-confing.json
META-INF/native-image/proxy-config.json



Source: @thomaswue https://twitter.com/thomaswue/status/1145603781108928513?s=20

Spring Cloud Observability

Micrometer 1.10

- ~~Spring Cloud Sleuth~~
- Micrometer 1.10 Tracing with Obersvation API
  - Observation
  - ObservationHandler

Spring Cloud Observability

DEMO ;)

That‘s all from us
It’s time for your questions…

Visit us @ our booth &
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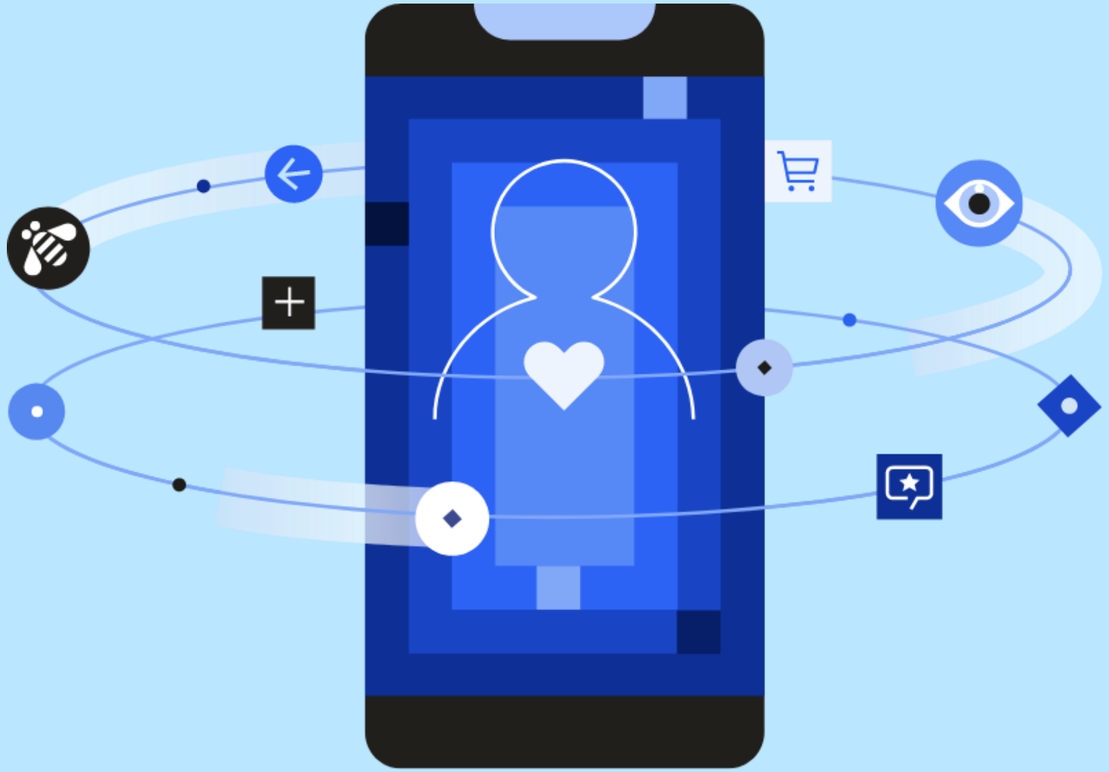
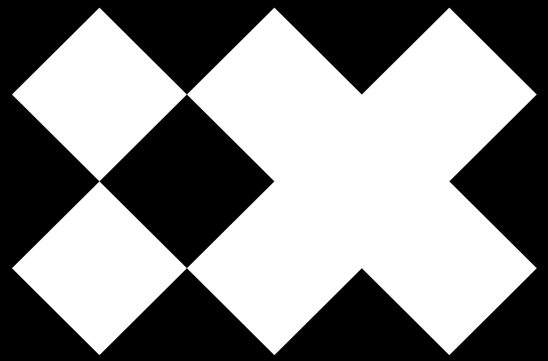
ticket for the JavaCro
conference 2023!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