

Spring Cloud Functions

write once run anywhere!

SpringOne 2020

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Spring Engineering

Spring Cloud Function - agenda

- Scope
- Deep(ish) dive into Spring Cloud Function
- Run anywhere part

Spring Cloud Function - scope

```
java.util.function.Supplier<?>
```

```
java.util.function.Function<?, ?>
```

```
java.util.function.Consumer<?>
```

POJO function

Spring Cloud Function

- Promote implementation of business logic via java Functions
- Uniformed and portable programming model
 - *Transparent Type Conversion*
 - *Function Composition*
 - *POJO functions (if it looks/smells like a function it must be a function)*
 - *Reactive support*
 - *Deployment of packaged functions*
 - *Arity - functions with multiple inputs/outputs*
- Integration with serverless platforms
 - *Amazon AWS*
 - *Google Cloud Functions*
 - *Microsoft Azure*

<Demo>

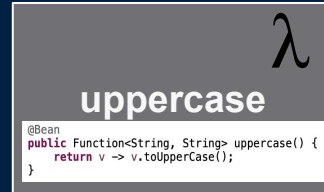
Why Spring Cloud Function





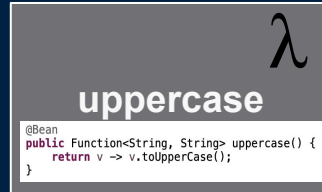
Why Functions?

FUNCTION



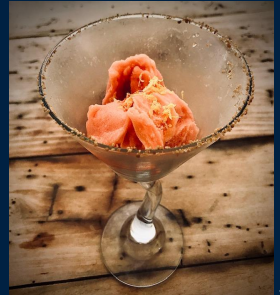
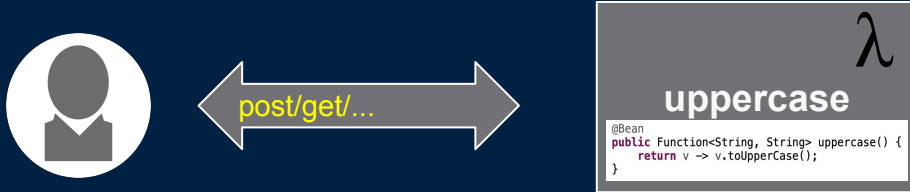
Why Functions?

FUNCTION



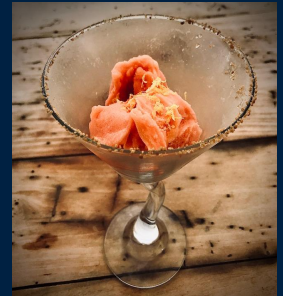
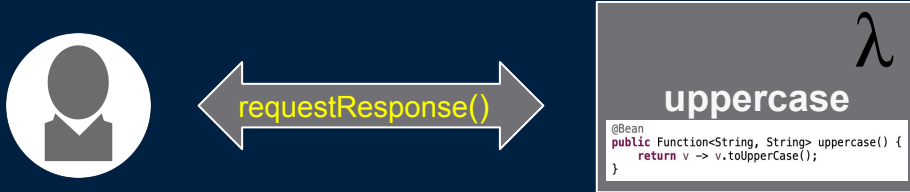
Why Functions?

HTTP



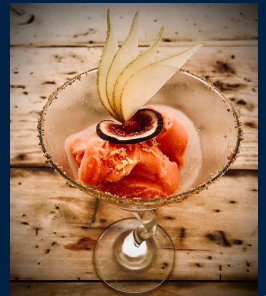
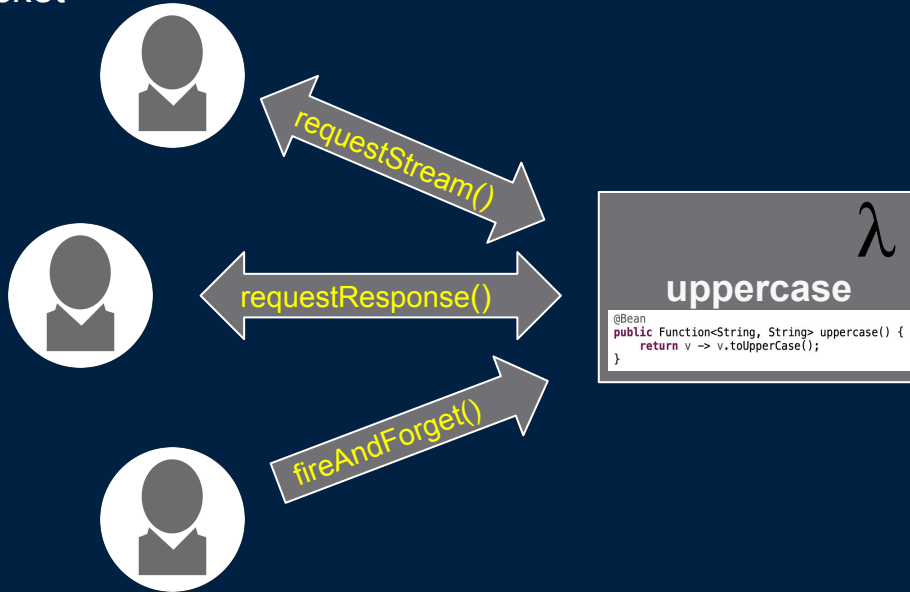
Why Functions?

RSocket



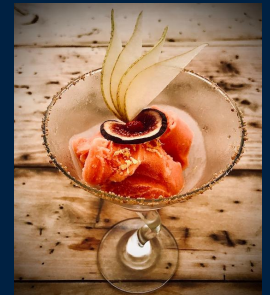
Why Functions?

RSocket



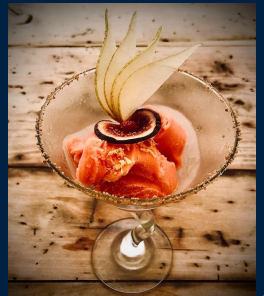
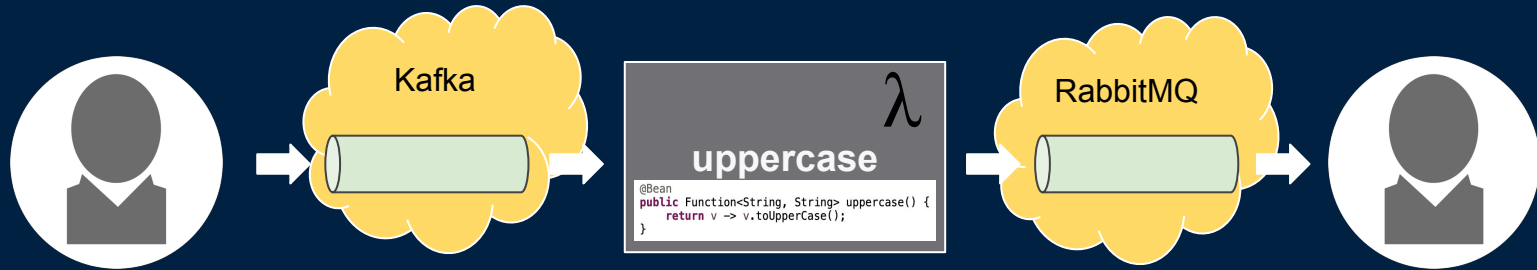
Why Functions?

Serverless platforms

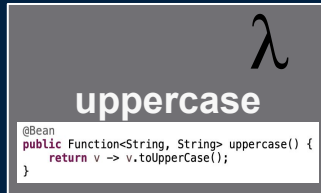


Why Functions?

Messaging



Why Functions?



<Demo>

Summary!

- Functions are simple, expressive, extensible and portable
- Most if not all requirements could be expressed with functions.
- Testing your functional application becomes very simple - you only need to test the function itself
- And list of benefits goes on. . .

