Empower your Spring-Applications with Python-Features on GraalVM

Johannes Link
@j_l1nk

Speaker

Johannes Link

IT Consultant

Company

Exxeta AG

Location

Karlsruhe (Germany)

Contact

johannes.link@exxeta.com

Agenda

Motivation

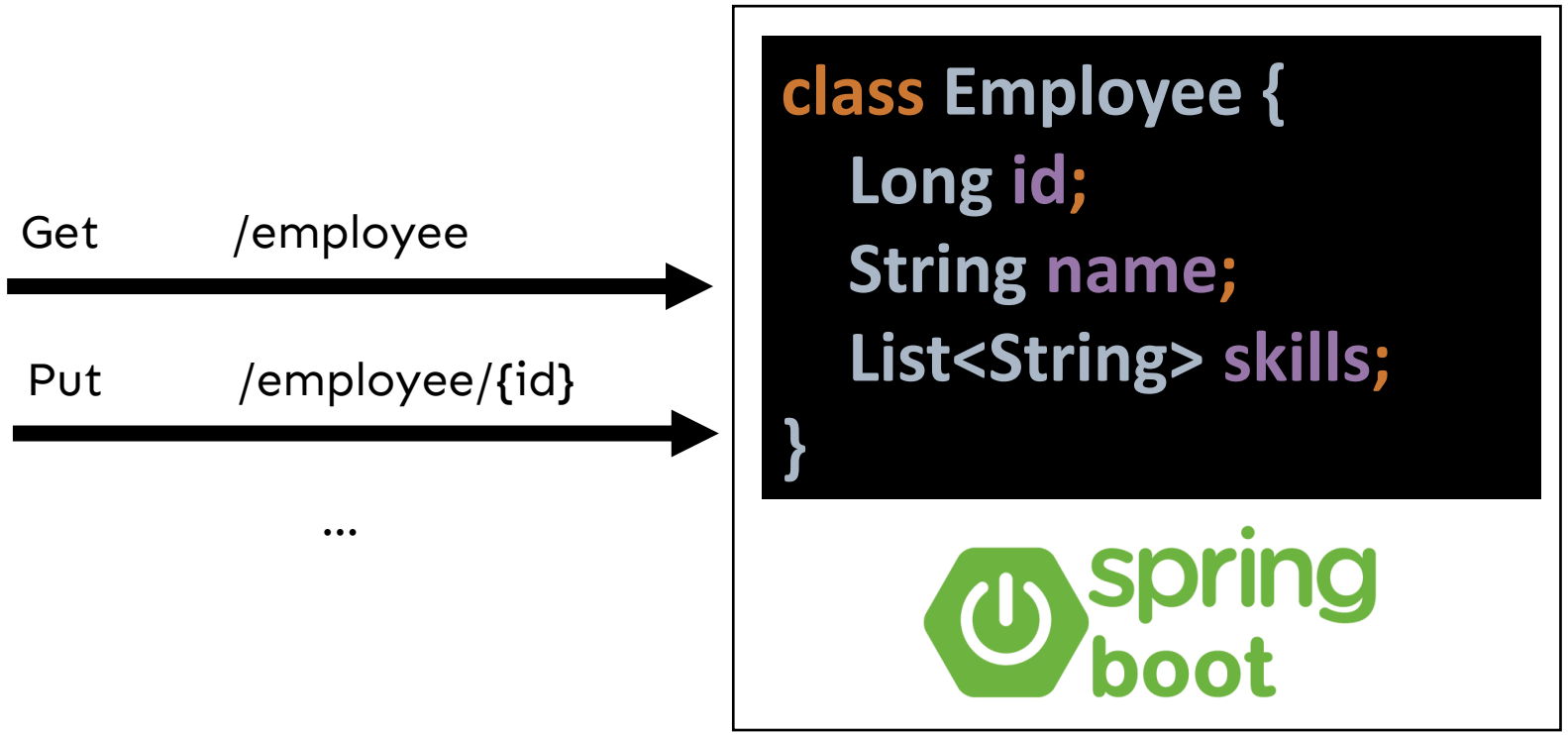
GraalVM

Demonstration

Conclusion

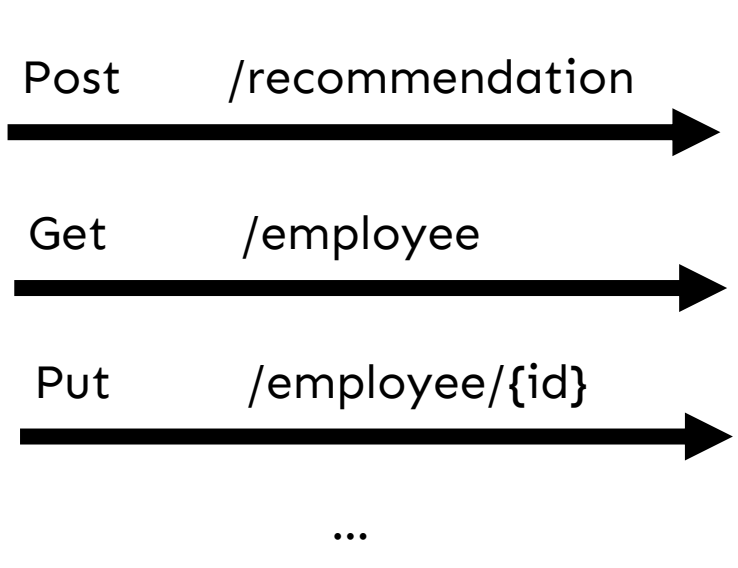
Project-Matcher

Project-Matcher



Project-Matcher

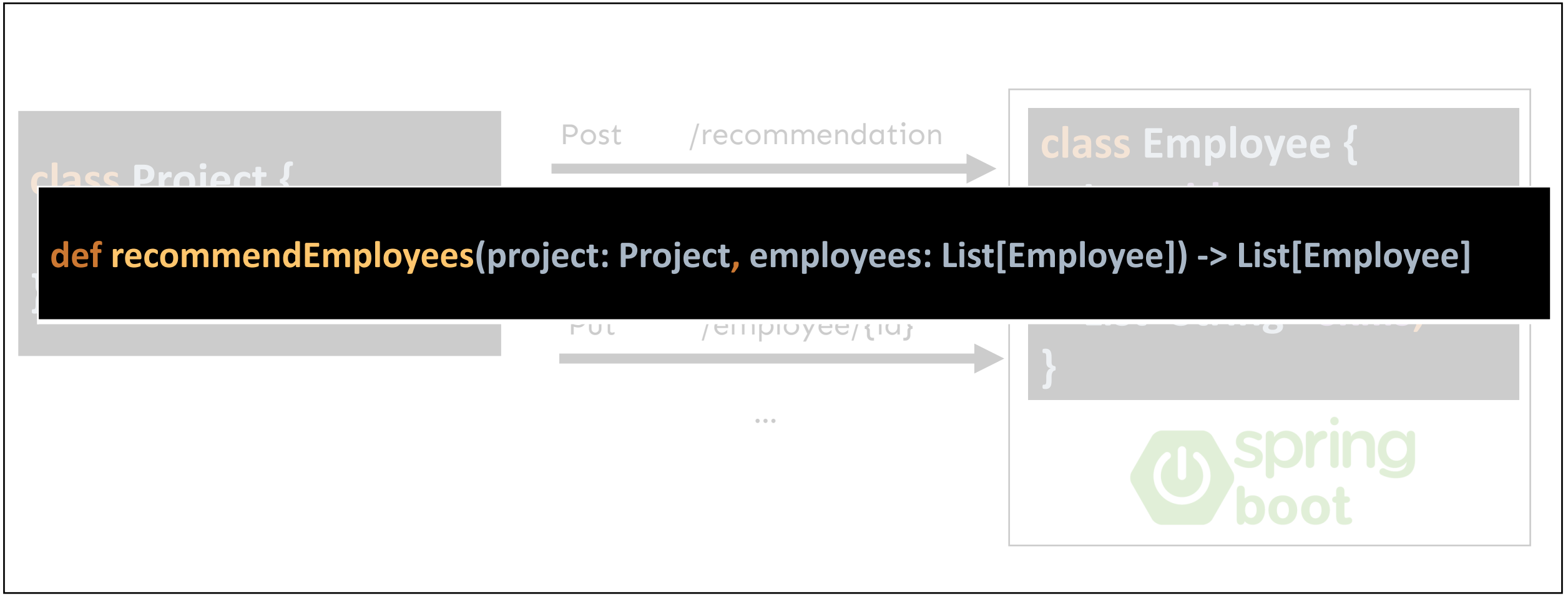
```
class Project {
   List<String> skills;
}
```



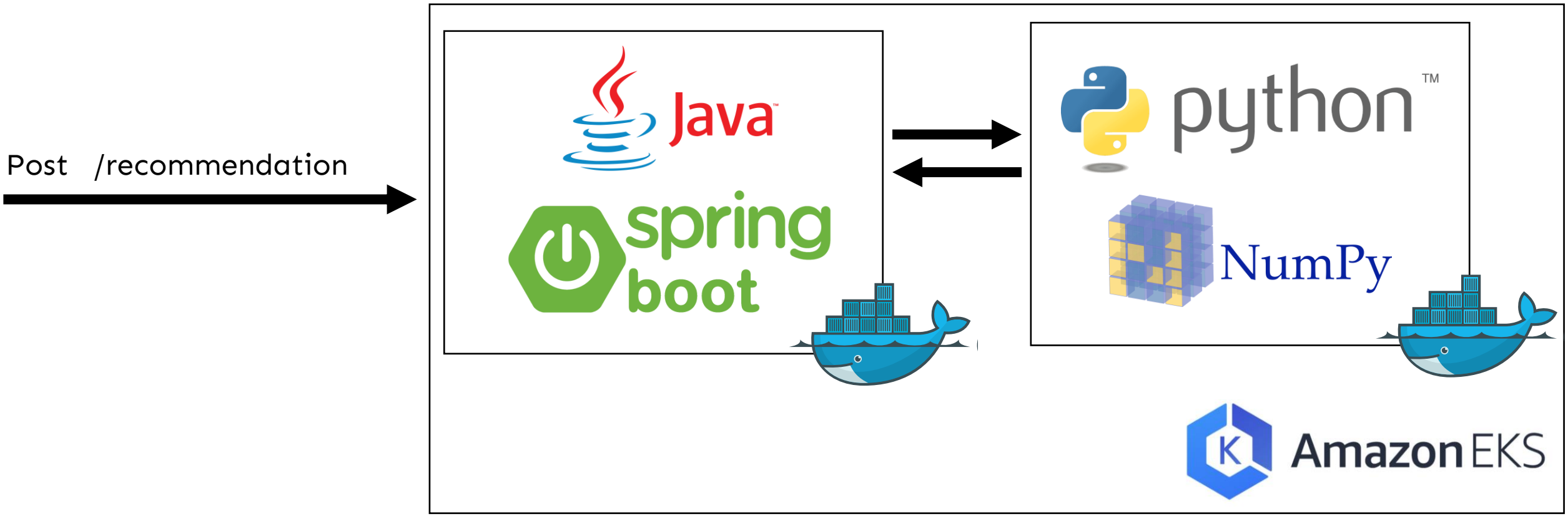

```
class Employee {
   Long id;
   String name;
   List<String> skills;
}
```

spring boot

Project-Matcher

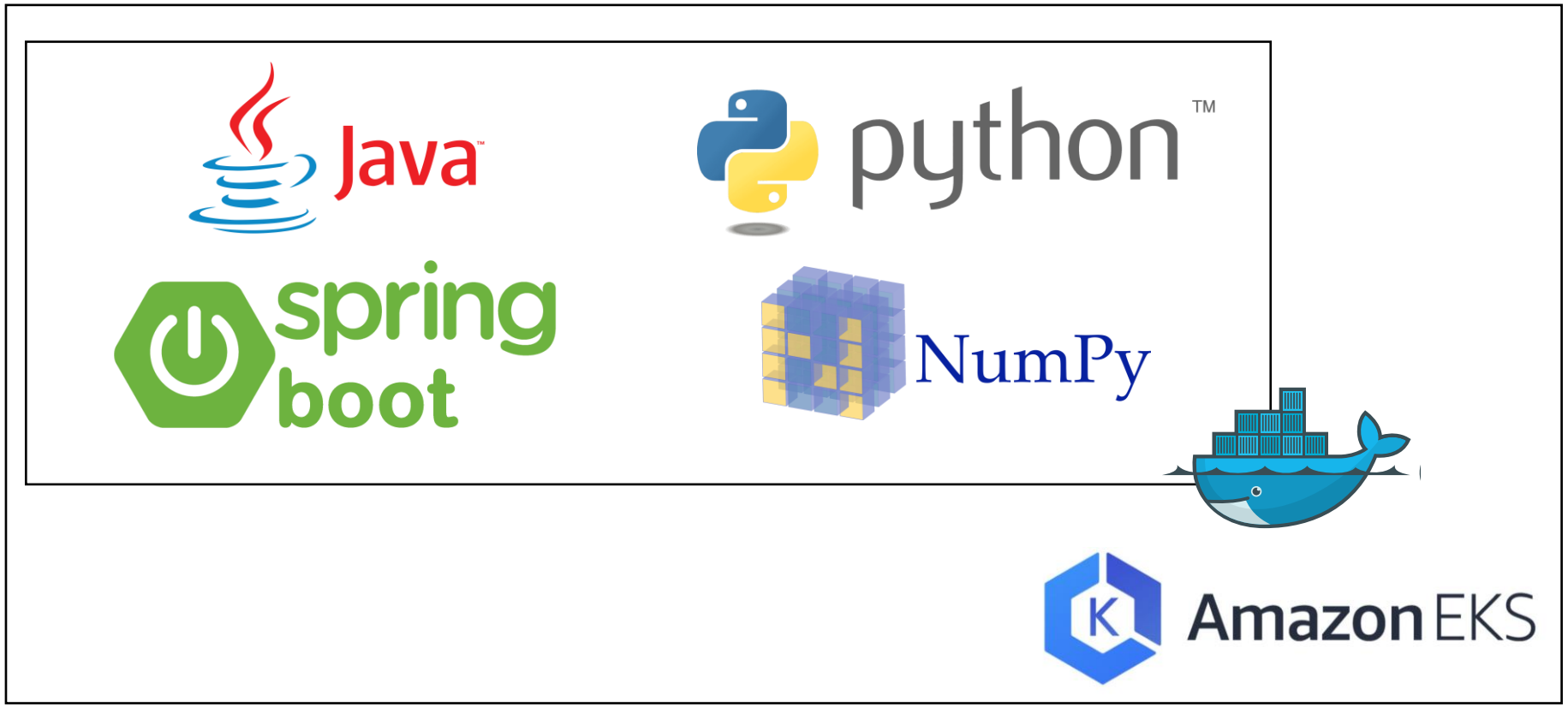


Architecture



Architecture

Post /recommendation

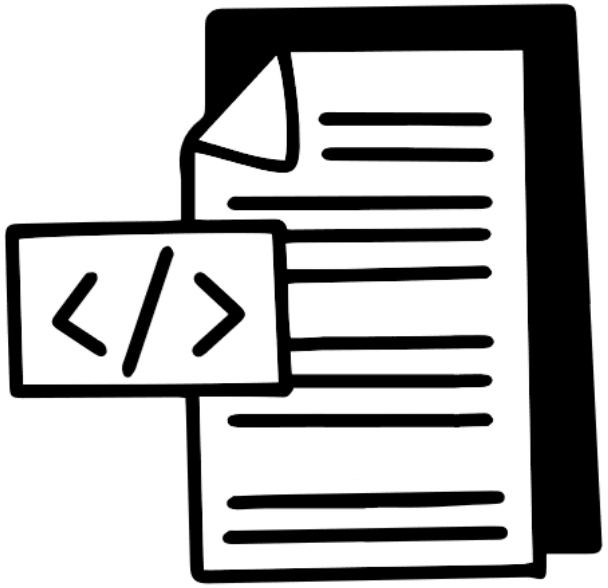


GraalVM

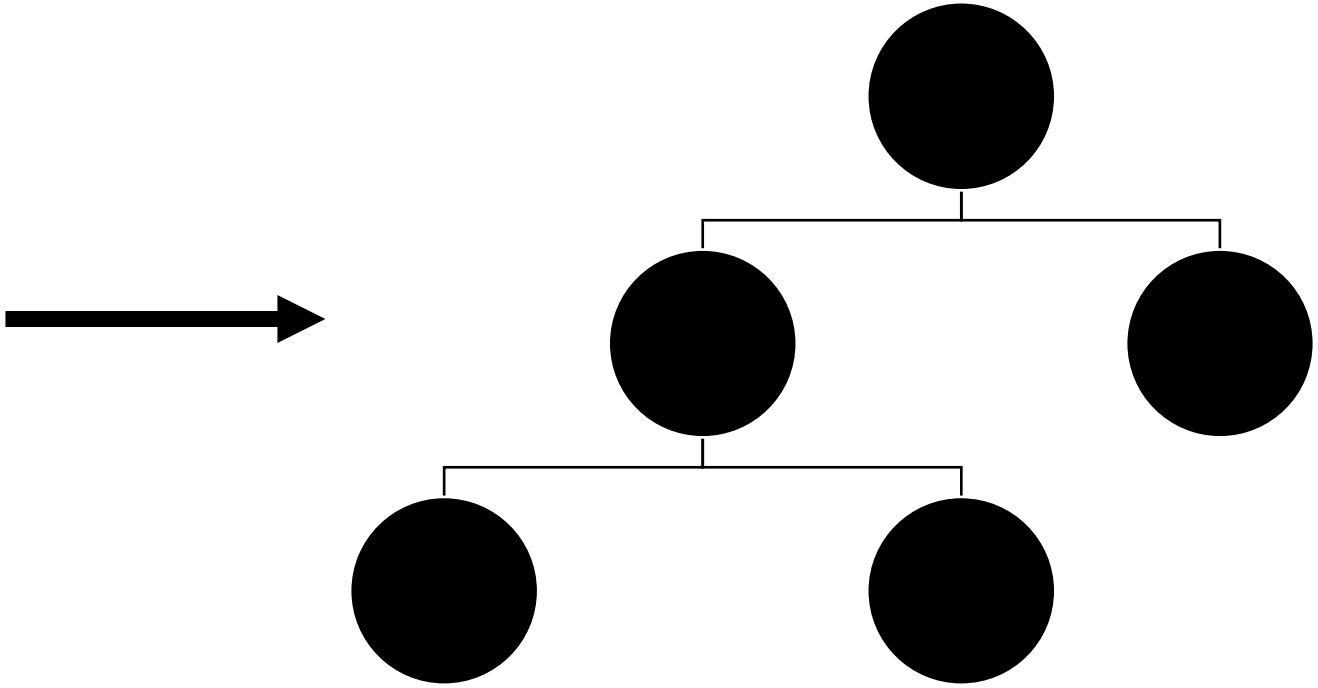
GraalVM

- Native Image is only one feature of GraalVM
- GraalVM is a Java Development Kit (JDK)
- GraalVM has it´s own Java Virtual Machine (JVM)

Truffle Framework

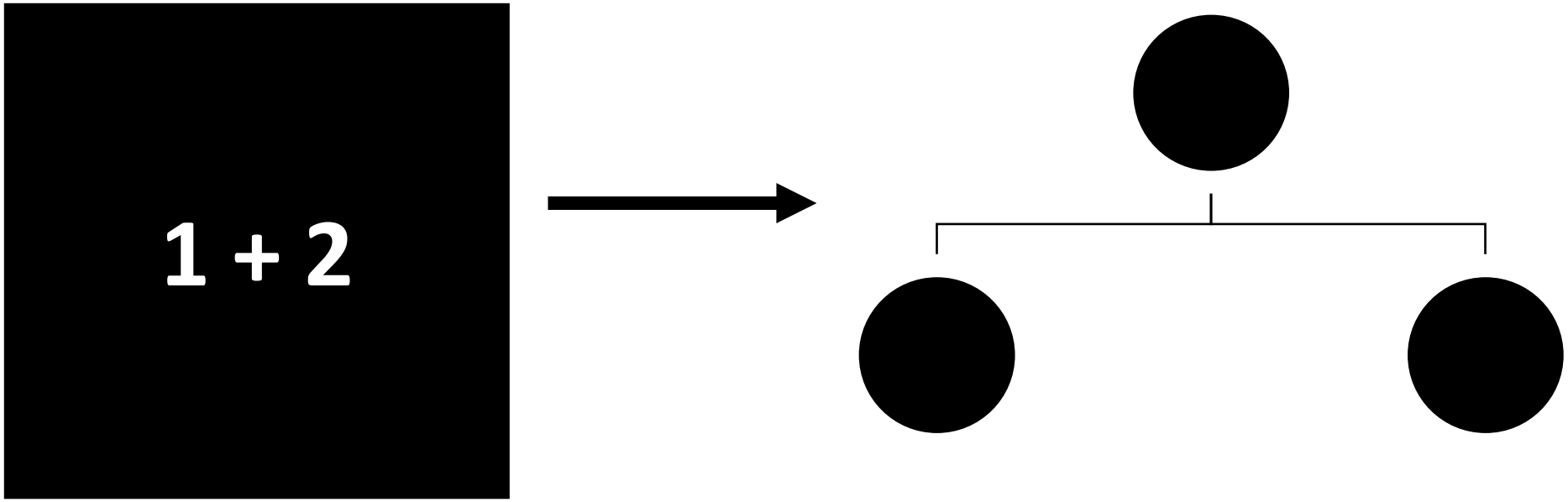


Source Code



Abstract Syntaxt Tree (AST)

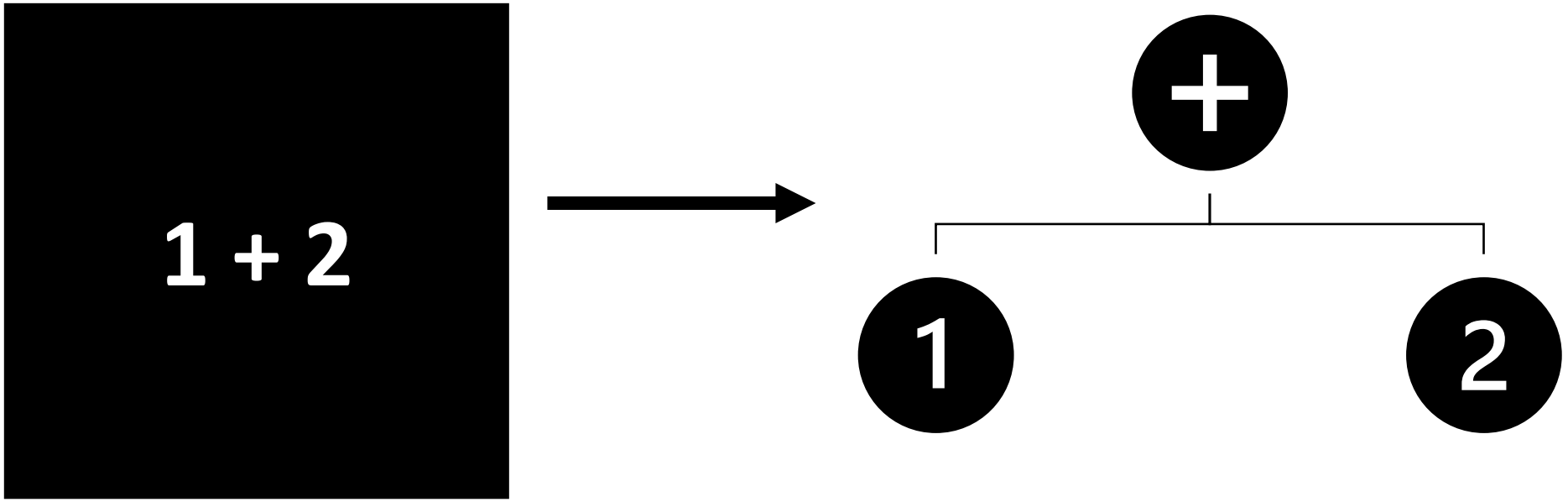
Truffle Framework



Source Code

Abstract Syntaxt Tree (AST)

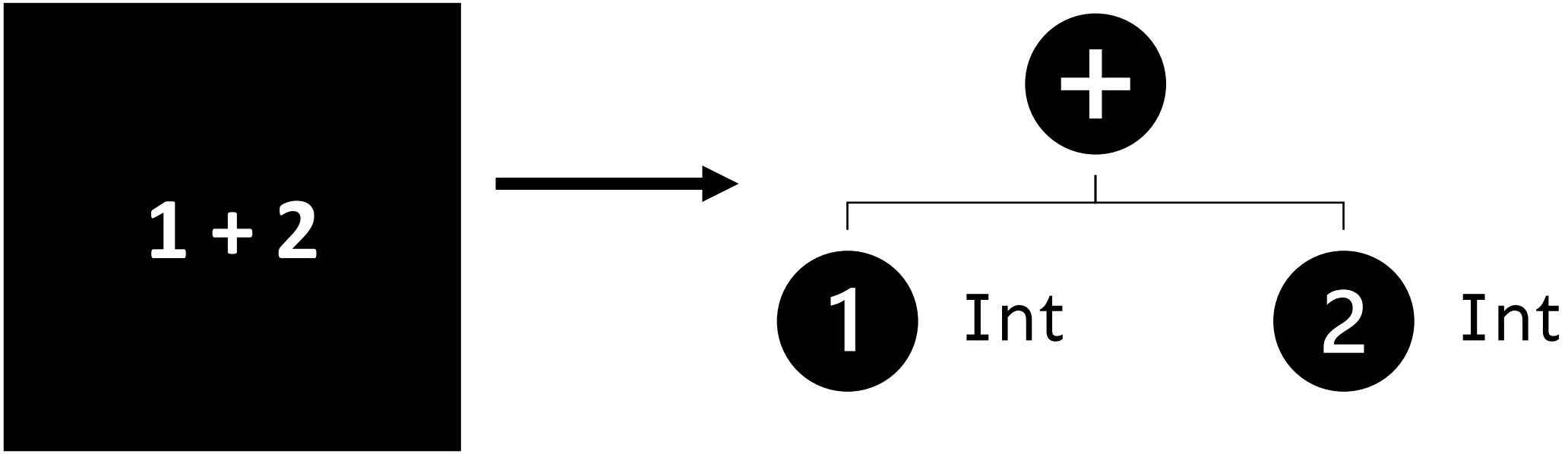
Truffle Framework



Source Code

Abstract Syntaxt Tree (AST)

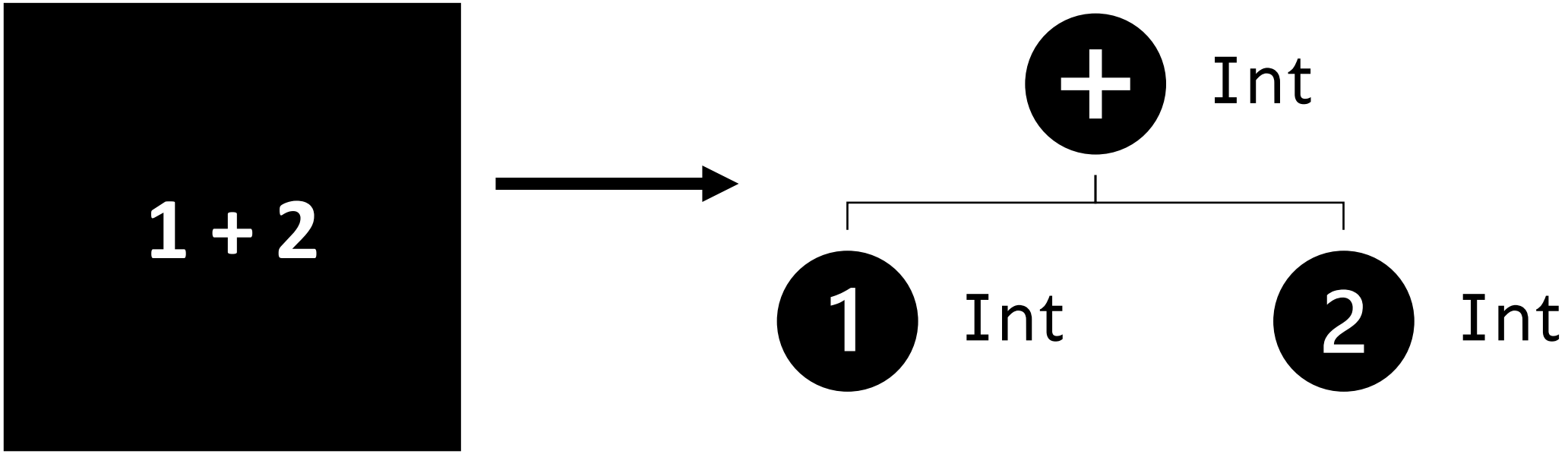
Truffle Framework



Source Code

Abstract Syntaxt Tree (AST)

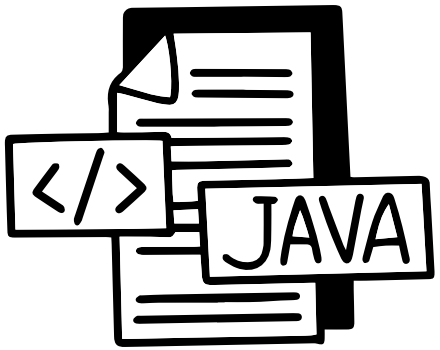
Truffle Framework



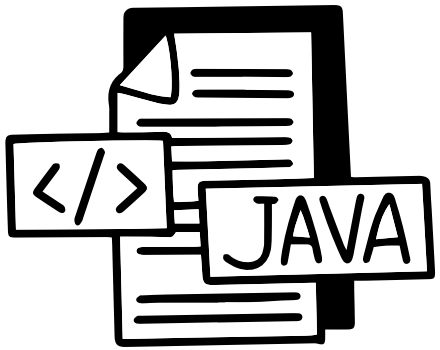
Source Code

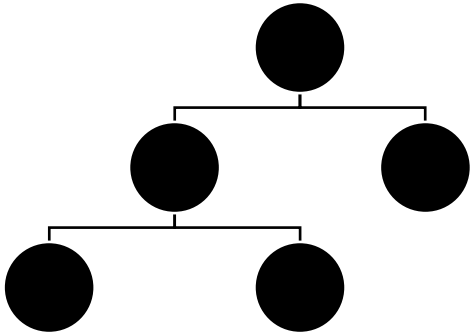
Abstract Syntaxt Tree (AST)

OpenJDK vs. GraalVM



OpenJDK™

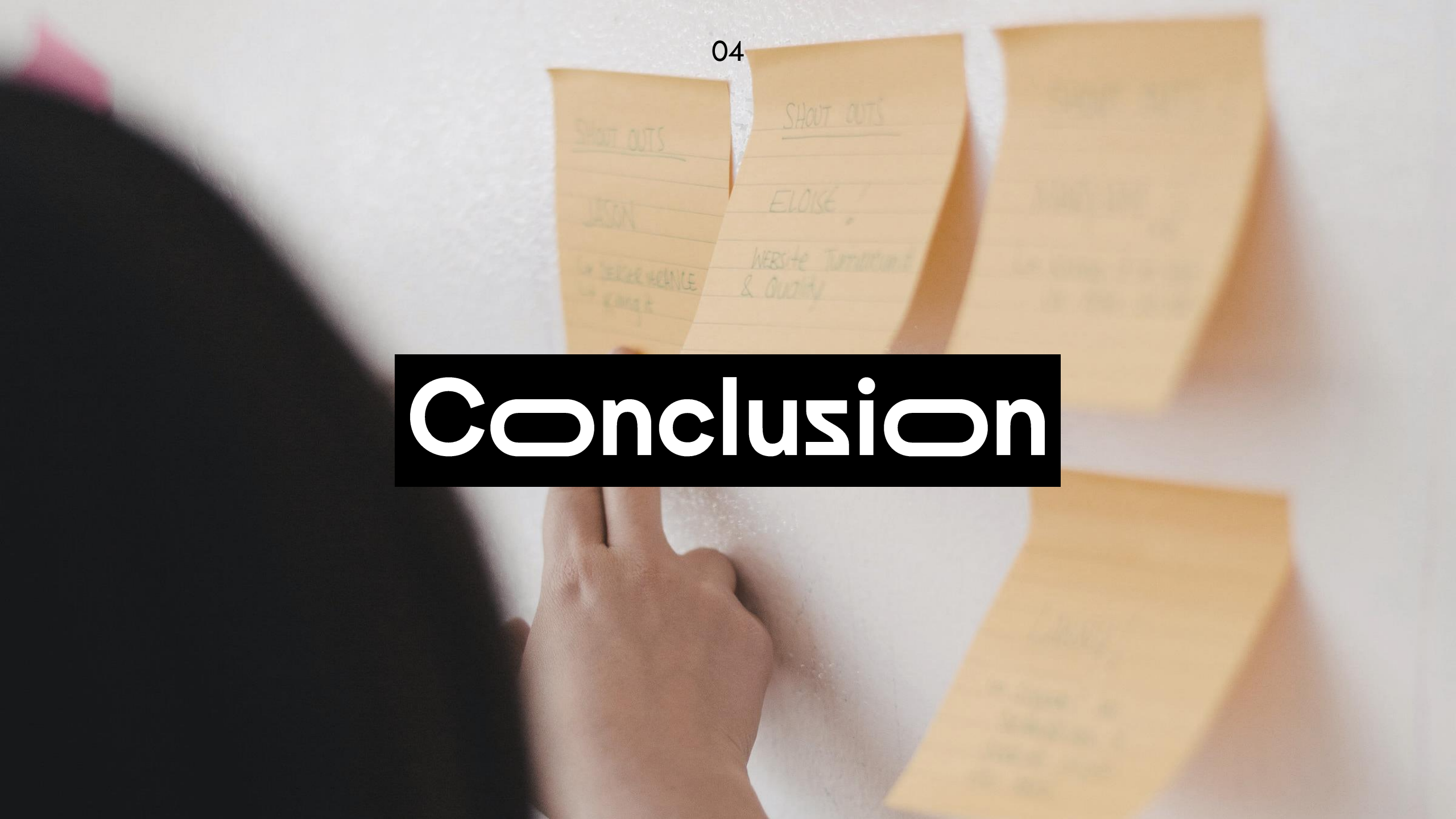




GraalVM™

Demonstration

04



Conclusion

Conclusion

- Great integration of Python-features in Spring
- Polyglot: Use the best features of all languages whenever you need them
- https://github.com/EXXETA/springio-2023

THANK YOU!

Q&A

Johannes Link
@j_l1nk