## HOW ADVANCES IN THE JVM CAN SPEED UP CAMUNDA TIM ZÖLLER

















Photo by Cara Fuller on Unsplash

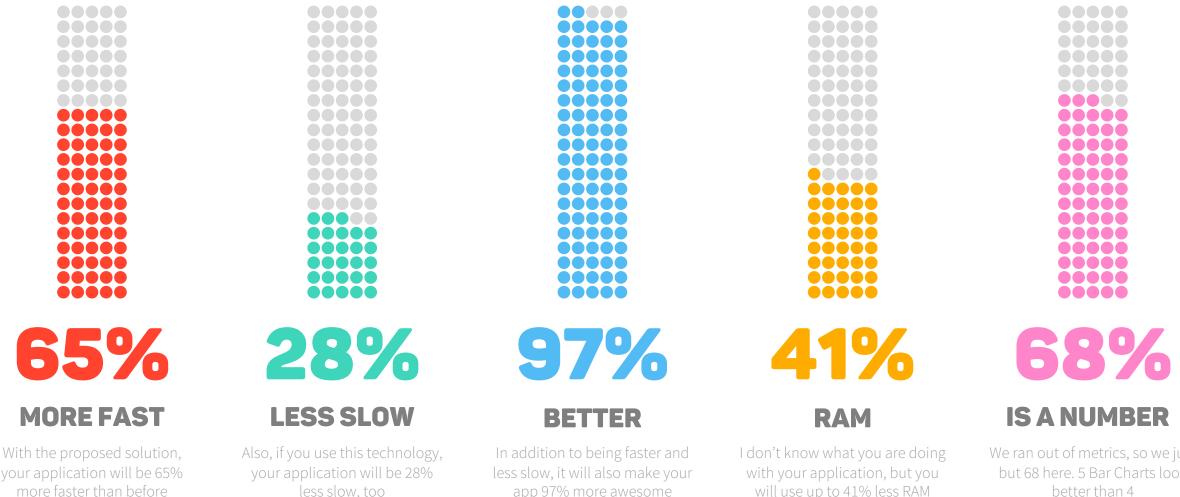
## WHATTHIS IS NOT ABOUT

Photo by Alan J. Hendry on Unsplash

### **SLIDES WITH CHARTS**

#### **IMPRESSIVE NUMBERS AND BAR CHARTS**

#### 



We ran out of metrics, so we just but 68 here. 5 Bar Charts look better than 4

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### TIM ZÖLLER A.K.A. "JAVAHIPPIE"



**TIM ZÖLLER** Senior IT Consultant

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#### **ABOUT ME**

SOCIAL

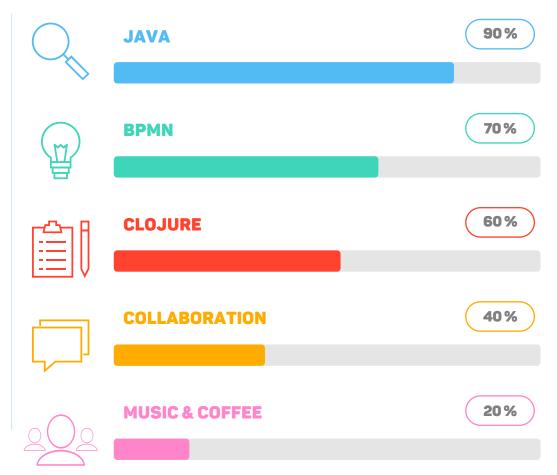
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- Developing Software since 2008
- Java, Clojure & BPMN
- ilum:e informatik ag

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in

#### **MY USUAL TOPICS**



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## WHAT WE WILL LOOKA

Photo by Michael Aleo on Unsplash

#### **MY SCREEN APPLIED CONFIGURATIONS AND REAL TIME EFFECTS**







Live demonstration of tooling



Links to resources in the end

### TECHNOLOGIES

#### WHO IS PROMISING THIS SHINY NEW WORLD?









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#### CLASS DATA SHARING

- Pre-Load Java Classes
- Java Standard Feature
- Since JDK 12
- Improvements in JDK 13

#### GRAALVM

- High Performance Runtime
- AOT Features
- Community & EE Edition
- Polyglot
- Capable of Native Images

#### MICRONAUT

- Micro Framework
- AOT Features
- Open Source
- Capable of Native Images

#### QUARKUS

- "Kubernetes Native Java Stack"
- AOT Features
- Open Source
- Maintained by RedHat
- Capable of Native Images

# LET'S HAVE A LOOK!

Photo by <u>D.S. Chapman</u> on <u>Unsplash</u> -

## **ARE WE HAPPY WITH THAT?**

Photo by Yuval Levy on Unsplash

### SOME BENEFITS ARE THEY WORTH IT?

#### **STARTUP TIME**

- Not relevant for most people
- Fast scalable Microservices?
- "Serverless" Service workers?

#### **APPLICATION SPEED**

• No JIT optimizations for native image

#### **MEMORY FOOTPRINT**

- Interesting for cheaper cloud hosting
- But most expensive: Database

#### **FLEXIBILITY**

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 Some limits for technology choices

# THANK YOU!

Photo by <u>Ash Edmonds</u> on <u>Unsplash</u>



## Questions?

