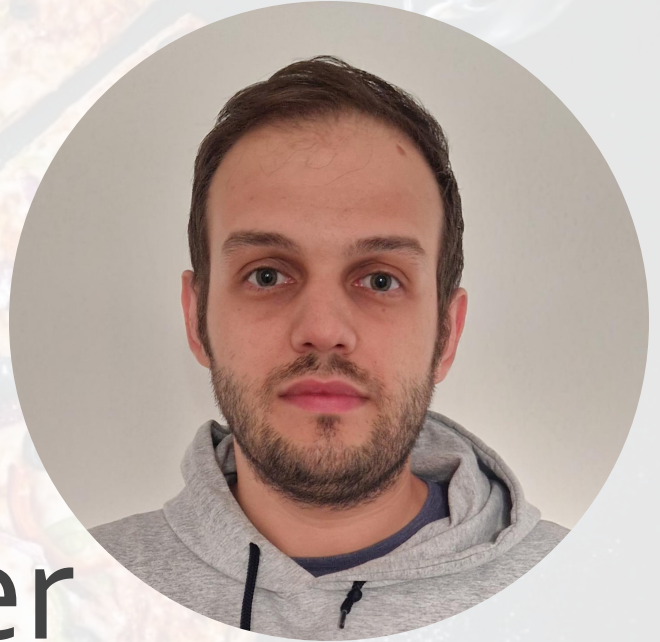




All the
Spring Boot
things

**A passionate
and enthusiastic
web
software developer**



Help wanted
and
greatly
appreciated



Java is old

The first version was released on **January 23, 1996**. The first stable version, JDK 1.0.2, is called Java 1.



Wikipedia

https://en.wikipedia.org/wiki/Java_version_history

[Java version history - Wikipedia](https://en.wikipedia.org/wiki/Java_version_history)

What about Python?

Python 0.9.0

Guido van Rossum began working on Python in the late 1980s as a successor to the ABC programming language and first released it in 1991 as **Python 0.9.0**. Python 2.0 was released in 2000.

Java is slow

<https://www.morling.dev/blog/one-billion-row-challenge/>

<https://github.com/gunnarmorling/1brc>

<https://1brc.dev/>

<https://www.graalvm.org/>



Spring a.k.a. **The Java web framework**

Spring Web MVC

- Builds on top of the Java Servlet API
- Allows us to annotate web controllers
- Handles filters such as the CORS one
- Provides hooks and interfaces for security purposes
- Allows us to configure resource caching



Enough *talking*,
show me the **code**

Spring Data

- An *umbrella* project for (almost) every datastore
- Consistent API abstractions around Repository concept
- Many specific implementations for SQL, NoSQL, ...
- We will see the Java Persistence API (a.k.a. JPA) part



Enough *talking*,
show me the **code**

A background image showing a hand holding a slice of pepperoni pizza. The image is faded and serves as a backdrop for the text.

Spring Security

- De-facto standard for Spring-based applications
- Integrates with the Servlet API
- Authentication & authorization
- Exploit prevention

Spring Boot Starter Test

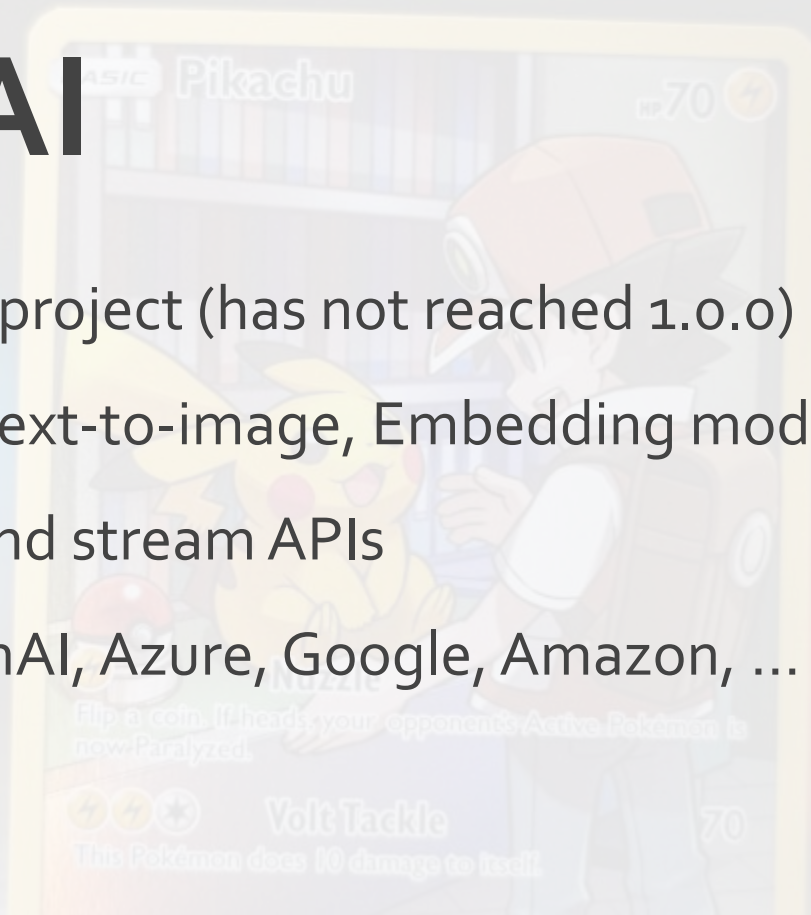
- Full test suite
- Acts as a facade for many Spring-related configurations
- Extended by many other projects such as Spring Security
- Testcontainers



Enough *talking*,
show me the **code**

Spring AI

- Relatively new project (has not reached 1.0.0)
- Support chat, text-to-image, Embedding models
- Synchronous and stream APIs
- Supports: OpenAI, Azure, Google, Amazon, ...



A top-down view of a group of people gathered around a table, sharing a large pizza. Several hands are visible reaching for slices. There are four white plates on the table. The background is a textured grey surface.

Enough *talking*,
show me the **code**

Thank you!



lb.luca.bonetti@gmail.com



<https://github.com/LBLucaBonetti/All-the-Spring-Boot-things>



<https://linkedin.com/in/lb-luca-bonetti>