

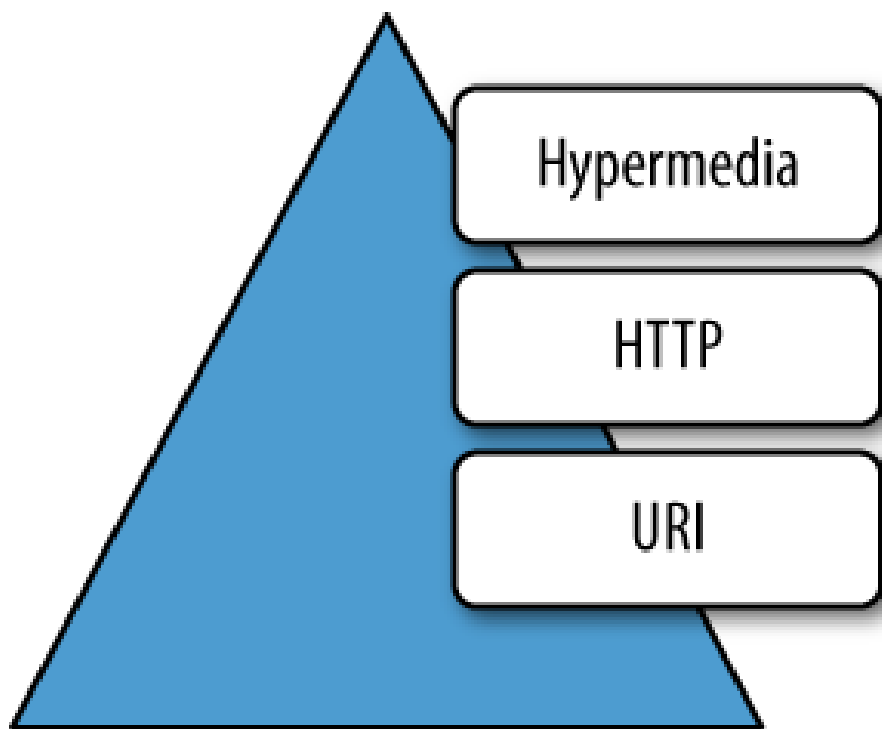
Instituto Federal de Educação, Ciência e ▶ Tecnologia de Guarulhos Guarulhos

Desenvolvimento de APIs em REST

Objetivos

- O que é o modelo de Maturidade de Richardson (RMM)?
- Níveis de maturidade?





O que é o modelo de Maturidade de Richardson (RMM)

Desenvolvido por Leonard Richardson, classifica Serviços da Web baseados em REST sobre quão bem eles aderem aos princípios REST.

Quanto mais um serviço empregar esses fatores, mais maduro ele será considerado:

1. URI
2. HTTP
3. Hypermedia

<https://restfulapi.net/richardson-maturity-model/>

<https://www.crummy.com/>

<https://www.crummy.com/writing/speaking/2008-QCon/act3.html>

O que é o
modelo de
Maturidade de
Richardson
(RMM) ?

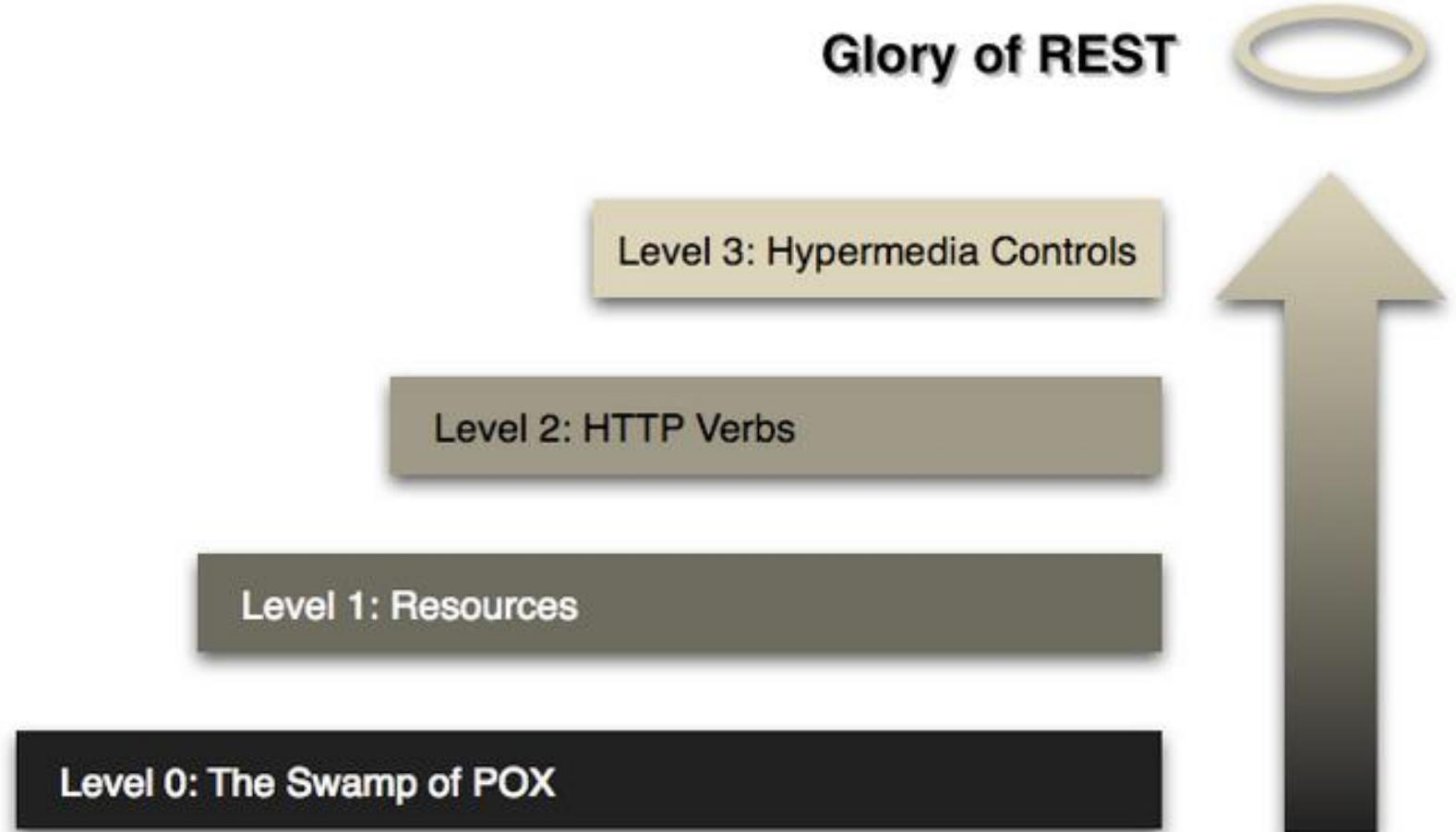
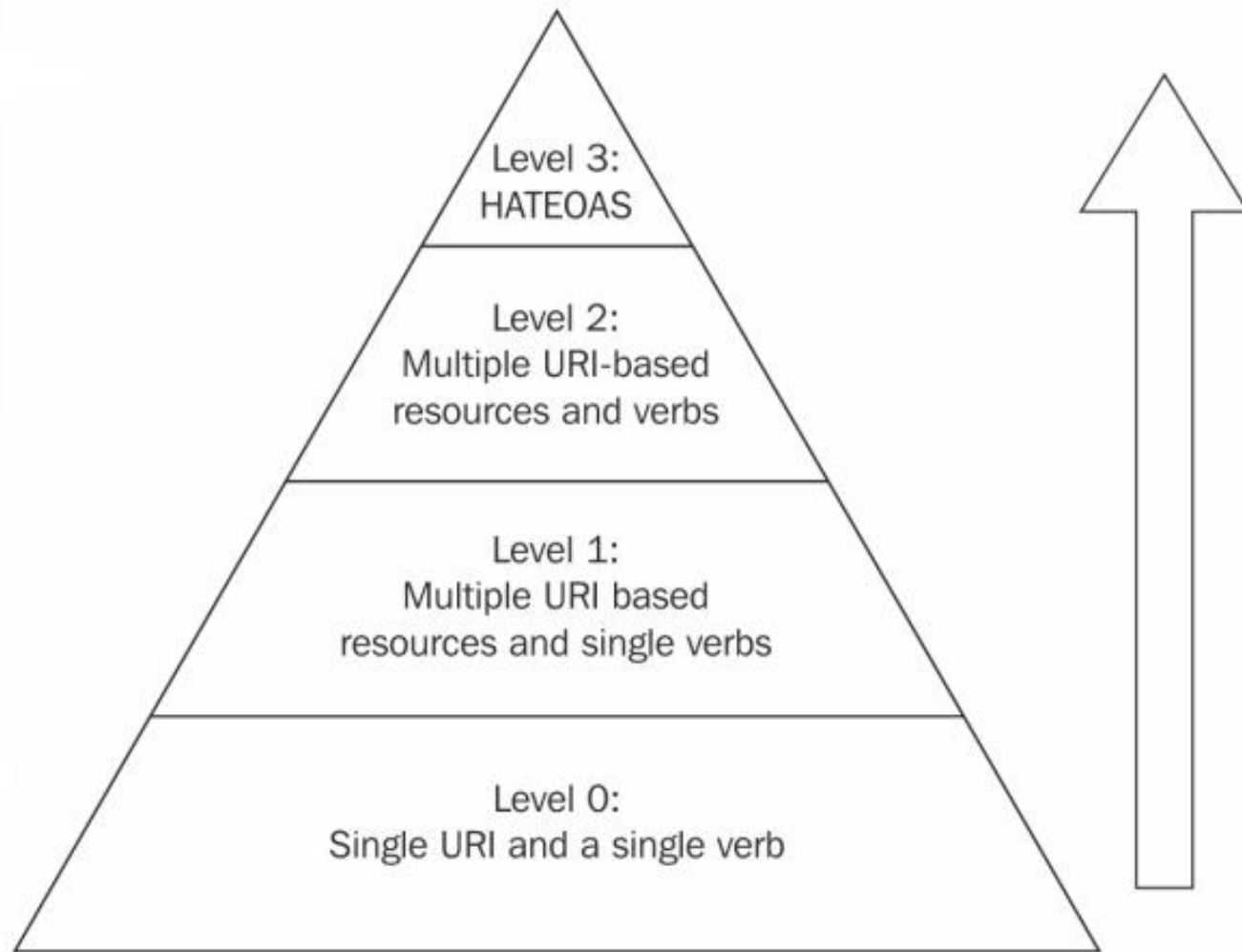


Figure 1: Steps toward REST

Níveis de maturidade



Richardson Maturity Model

Roy Fielding já deixou bem claro que o nível 3 do RMM é uma pré-condição do REST

Construindo
nossa
primeira API



Ferramentas necessárias

- **Spring Initializer:** <https://start.spring.io>
- **Java 17:**
<https://www.oracle.com/java/technologies/downloads/#jdk17-windows>
- **Eclipse IDE for Enterprise Java and Web Developers**



Project

☐ Gradle - Groovy ☐ Gradle - Kotlin

☒ Maven

Language

☒ Java ☐ Kotlin ☐ Groovy

Spring Boot

☐ 3.1.0 (SNAPSHOT) ☐ 3.1.0 (M1) ☐ 3.0.5 (SNAPSHOT) ☒ 3.0.4

☐ 2.7.10 (SNAPSHOT) ☐ 2.7.9

Project Metadata

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 19 ☒ 17 ☐ 11 ☐ 8

Dependencies

ADD DEPENDENCIES... CTRL + B

Spring Web WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Spring Boot DevTools DEVELOPER TOOLS

Provides fast application restarts, LiveReload, and configurations for enhanced development experience.



About Eclipse IDE



Eclipse IDE for Enterprise Java and Web Developers (includes Incubating components)

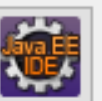
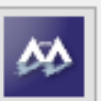
Version: 2021-12 (4.22.0)

Build id: 20211202-1639

(c) Copyright Eclipse contributors and others 2000, 2021. All rights reserved. Eclipse and the Eclipse logo are trademarks of the Eclipse Foundation, Inc., <https://www.eclipse.org/>. The Eclipse logo cannot be altered without Eclipse's permission. Eclipse logos are provided for use under the Eclipse logo and trademark guidelines, <https://www.eclipse.org/logotm/>. Oracle and Java are trademarks or registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

This product includes software developed by other open source projects including the Apache Software Foundation, <https://www.apache.org/>.

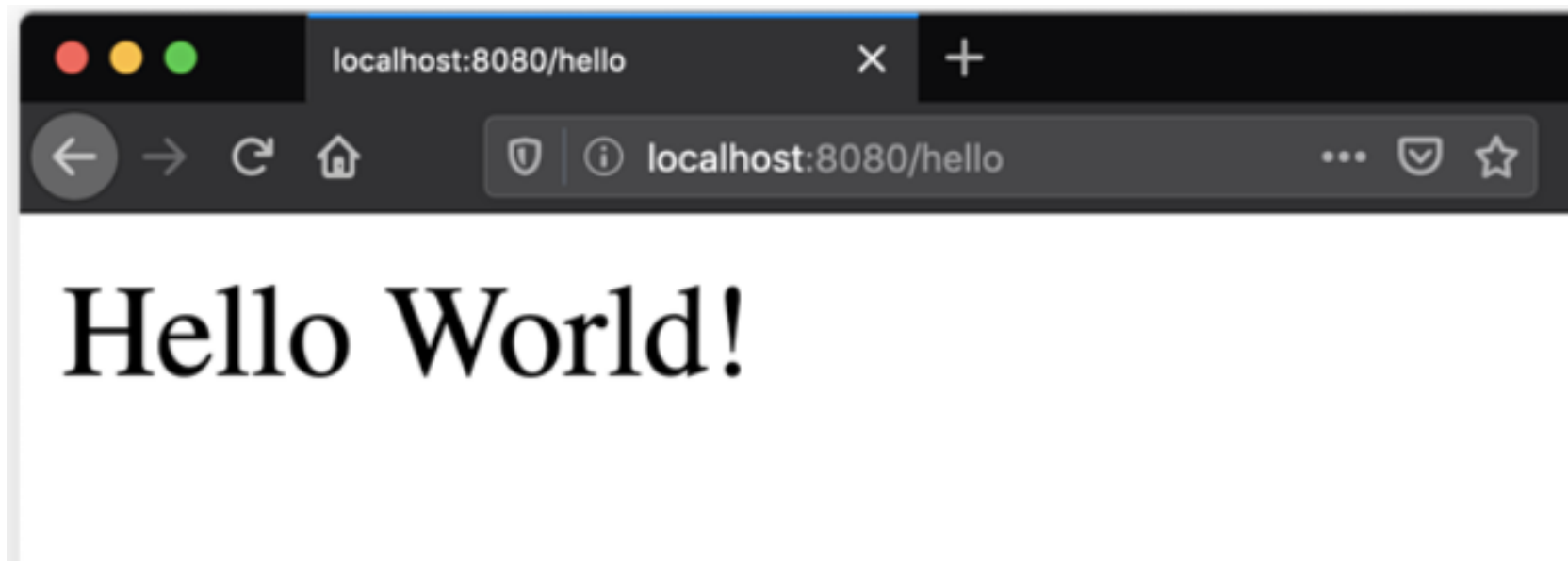
Lombok v1.18.24 "Envious Ferret" is installed. <https://projectlombok.org/>



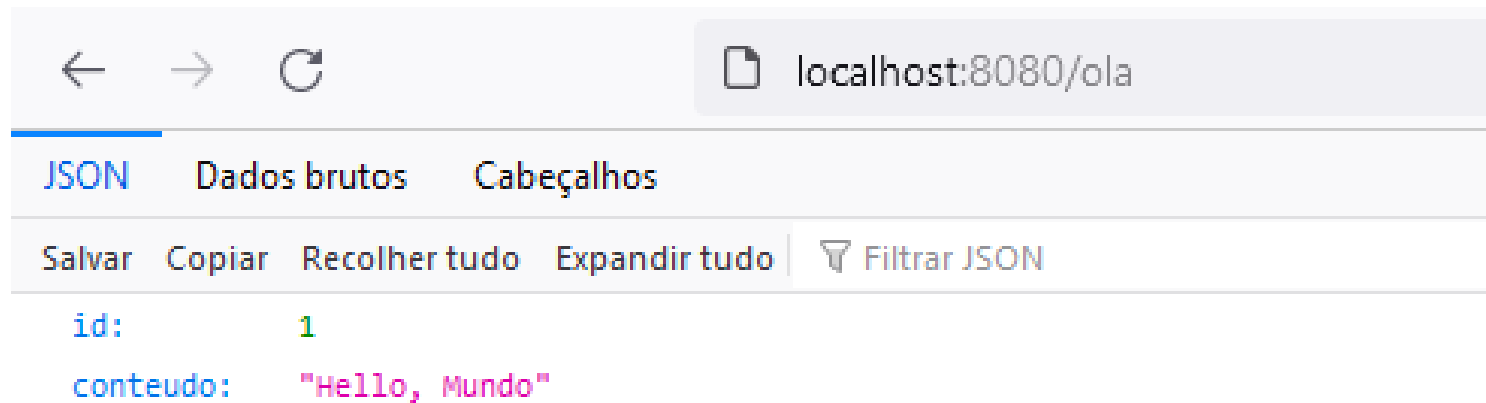
Installation Details

Close

Construindo uma API Hello World

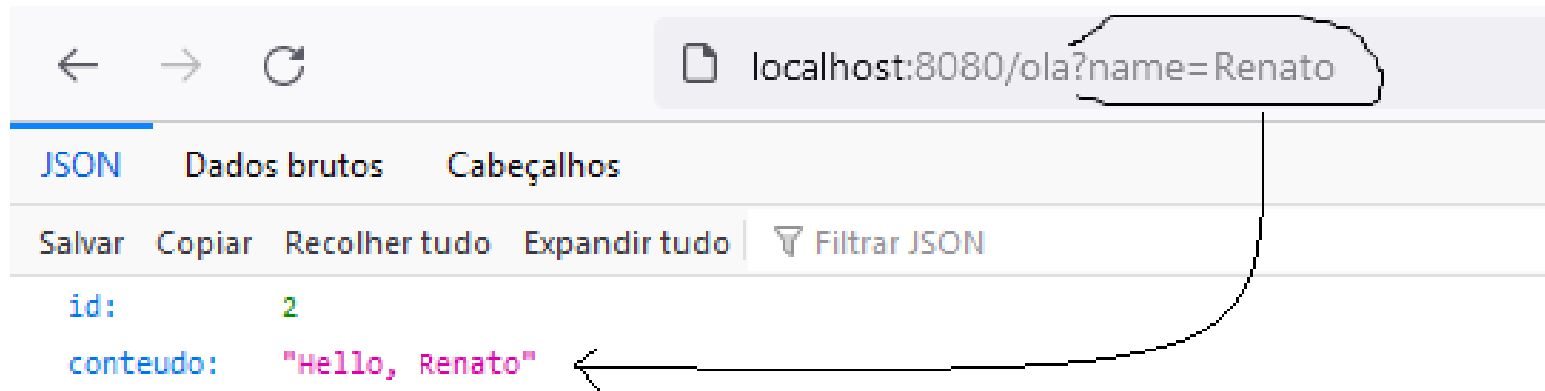


Construindo uma API Hello World com parâmetros



<https://spring.io/quickstart>

Construindo uma API Hello World com parâmetros



<https://spring.io/quickstart>

Criação de uma API que gera frases randomizadas

- <https://spring.io/guides/gs/consuming-rest/>

Referências

- Capítulo 2 - Livro REST in Practice - by Jim Webber, Savas Parastatidis, and Ian Robinson
- Capítulo 3 – Livro Spring Boot up and Running: Building Cloud Native java and Kotlin Applications – Mark Heckler
- https://www.enterpriseintegrationpatterns.com/ramblings/18_starbucks.html
- <https://start.spring.io/>
- <https://spring.io/quickstart>
- <https://www.javaguides.net/p/rest-api-tutorial.html>
- <https://www.treinaweb.com.br/blog/entendendo-injecao-de-dependencia>
- <https://www.javatpoint.com/restful-web-services-richardson-maturity-model>
- <https://www.oreilly.com/library/view/hands-on-restful-web/9781789537611/1c4f9a80-a35d-428c-9131-b3d20edb493e.xhtml>
- <https://restfulapi.net/richardson-maturity-model/>
- <https://www.crummy.com/>
- <https://www.crummy.com/writing/speaking/2008-QCon/act3.html>
- <https://martinfowler.com/articles/richardsonMaturityModel.html>