

Greetings, Java Hipster!

JHipster IDE & Sub-Generator

Eclipse DemoCamp – Zurich / 05-2017

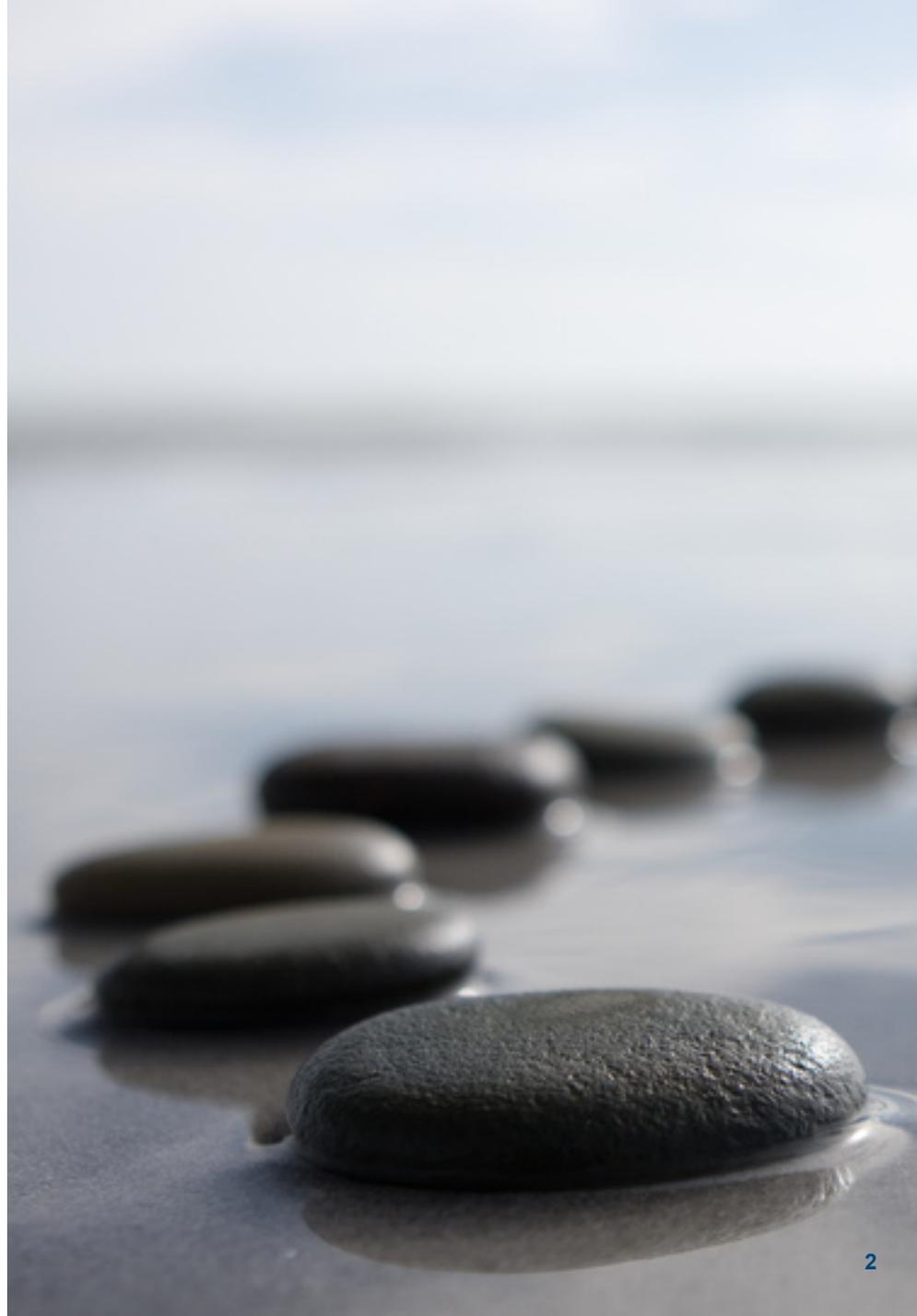


Serano Colameo & Jose Badeau



Agenda

- 1st part (Serano Colameo)
 - Short overview about JHipster
 - What was the motivation to develop IDE features for JHipster
 - Demo: How to create from scratch a JHipster web application in Eclipse
- 2nd part (Jose Badeau)
 - Present the Yeoman JHipster sub-generator technology
 - How to write an own JHipster sub-generator
 - Show an example in a demo



JHipster Overview

What is JHipster?



JHipster is a free and open-source **application generator** used to develop quickly a modern full stack **web application** using AngularJS, Spring and many other open source technologies.



Spring Framework



Spring Boot



JHipster

JHipster Options

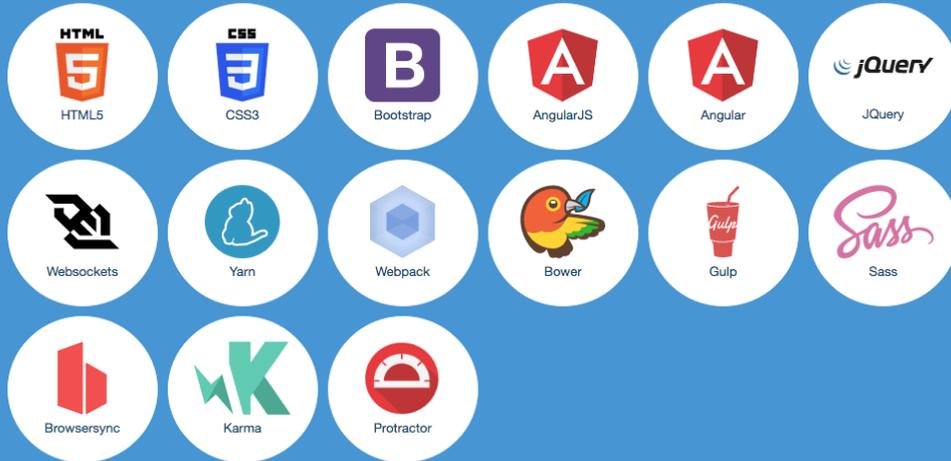
Technologies available in JHipster



Deployment Options



Client Side Options



Server Side Options



But what about the development tooling?



```
1. node
$ yo jhipster:entity Address

The entity Address is being created.

Generating field #1

? Do you want to add a field to your entity? Yes
? What is the name of your field? street
? What is the type of your field? String
? Do you want to add validation rules to your field? No

Fields
street (String)

Generating field #2

? Do you want to add a field to your entity? Yes
? What is the name of your field? streetNr
? What is the type of your field? (Use arrow keys)
> String
Integer
Long
Float
Double
BigDecimal
LocalDate
(Move up and down)
```

JHipster is a typical Yeoman generator with a command line interface to create new projects, define entities, services etc.



JDL is Domain Specific Language

Setting up your environment
Core JHipster tasks
Microservices
Options

★ JHipster Domain Language (JDL)

The JDL is a JHipster specific domain language where we have added the possibility to describe all your entities and their relationships in a single file (or more than one) with a simple and user-friendly syntax.

You can use our online JDL-Studio IDE to create JDL and its UML visualization. You can create and export or share the URL of your JDL.

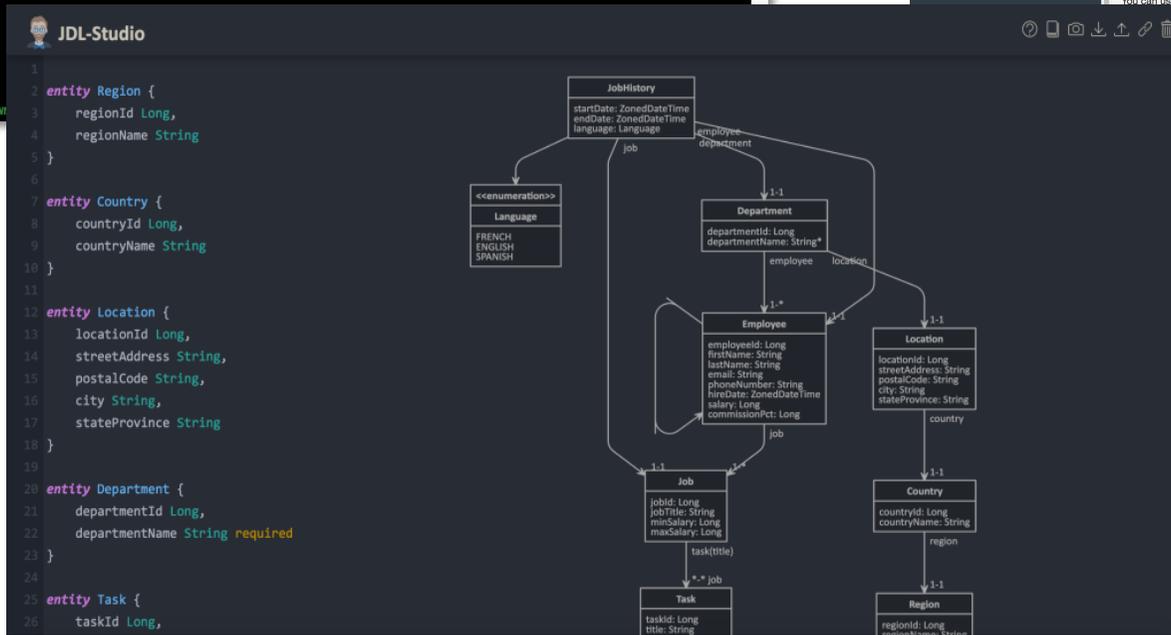
... generate entities from a JDL file using the `import-jdl` sub-generator, by running `jhipster import-jdl your-jdl-file`. It can also generate entities from a JDL file using JHipster UML, by running `jhipster-uml your-jdl-file.jh` from the generated JHipster application. To learn more about JHipster UML, and install it, go to the [JHipster UML documentation](#).

... used as a replacement to using the `entity` sub-generator. The idea is that it is much easier to manage relationships using a file with the classical Yeoman questions and answers.

... JDL is available on GitHub, it is an Open Source project like JHipster (Apache 2.0 License). It can also be used as a node JDL parsing.

... JHipster Domain Language, don't forget to give the project a star on GitHub! If you like the JDL Studio don't forget to give star on GitHub!

JDL documentation:
- simple
- use it
- language
- by Declaration
- relationship Declaration
- enumerations
- ts
- ion declaration
- preservice-related options
- printing



JDL-Studio Web Editor

<https://jhipster.github.io/jdl-studio>

A nice(r) editor for JDL but integrated in an IDE...

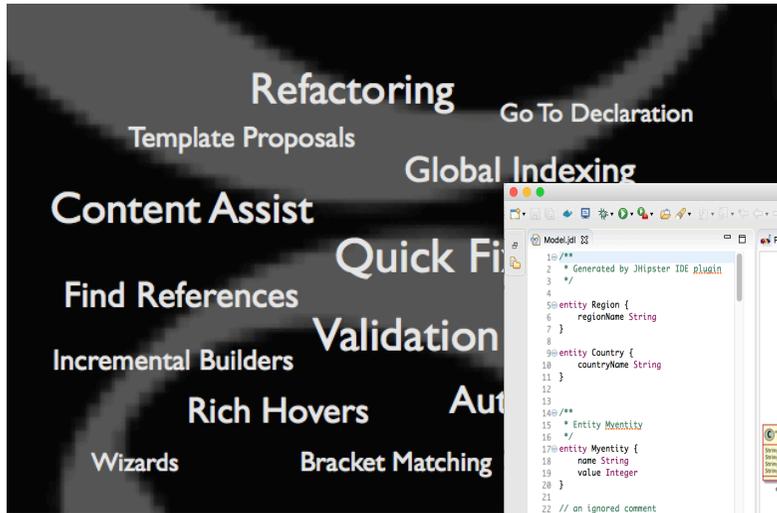
Why not develop a DSL with Xtext?



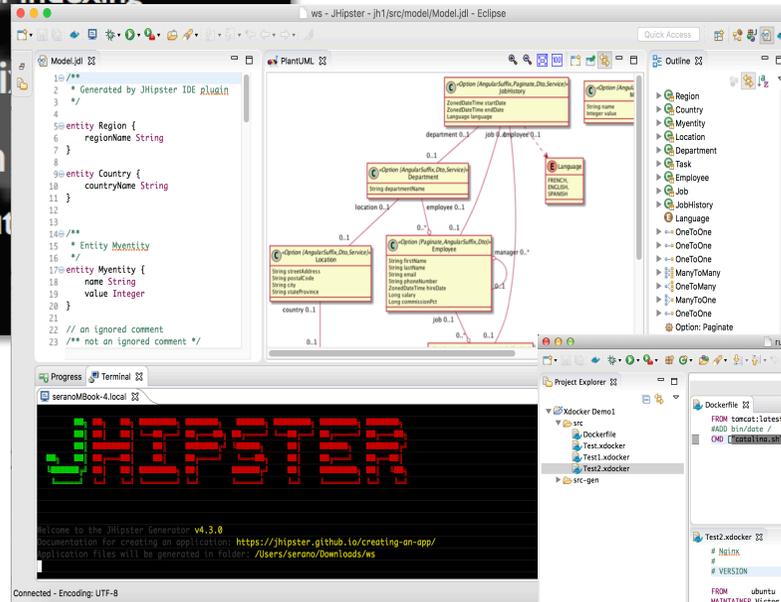
JHipster IDE



Features available in the latest version (1.2.0)

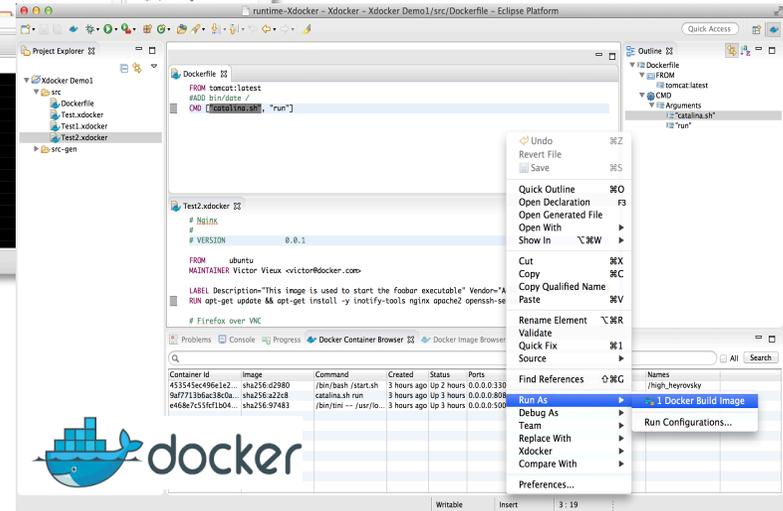


An IDE editor made with Xtext



- JHipster perspective
- UML model viewer
- Terminal and shell script interface to call the JHipster generator

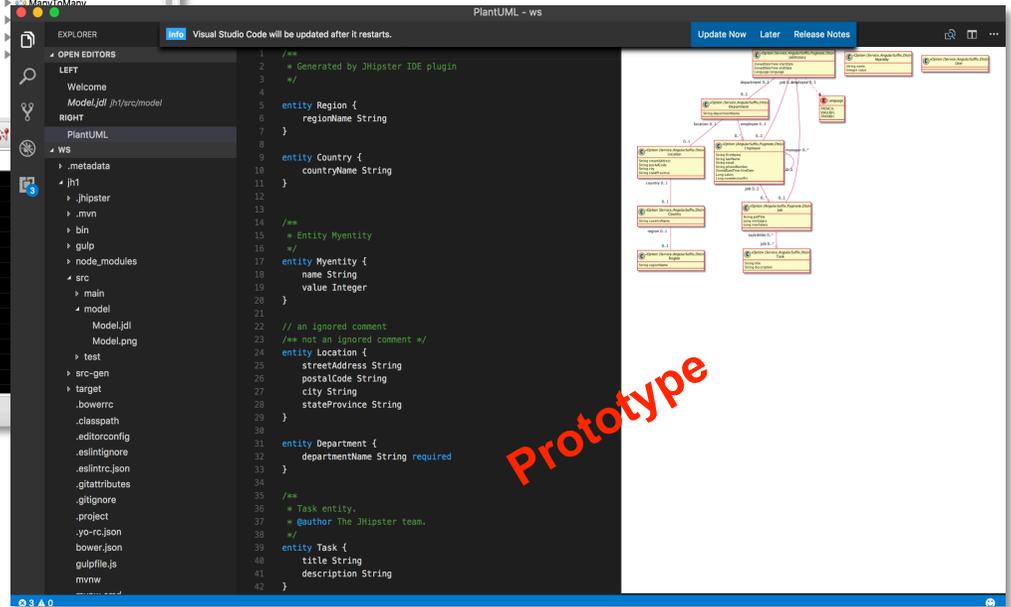
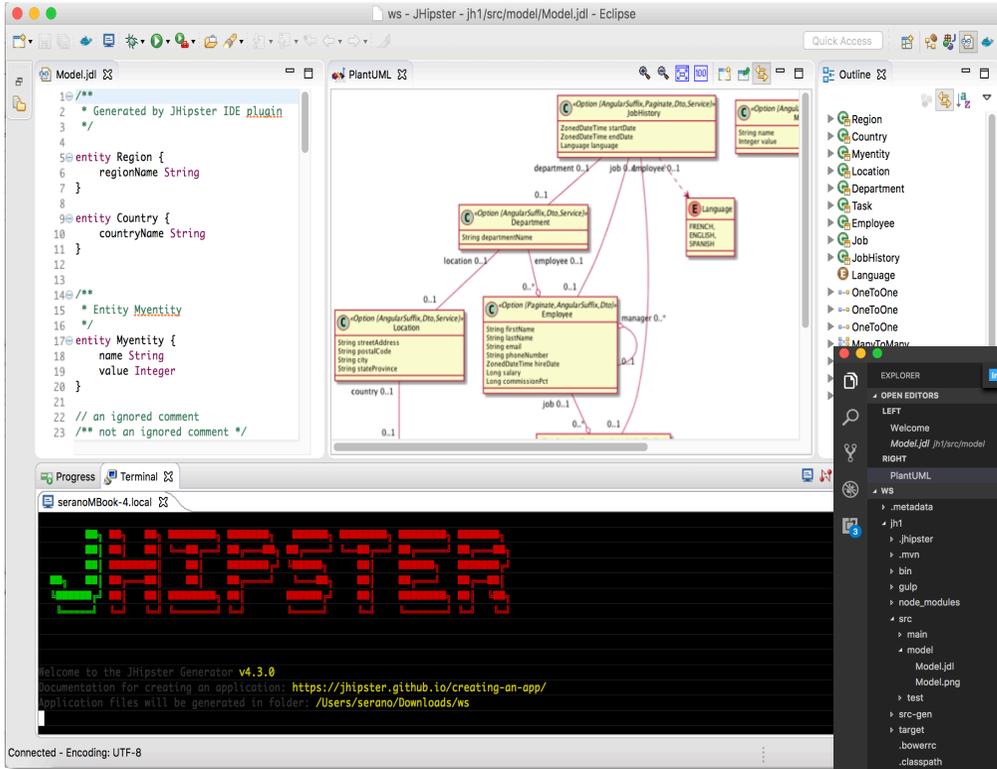
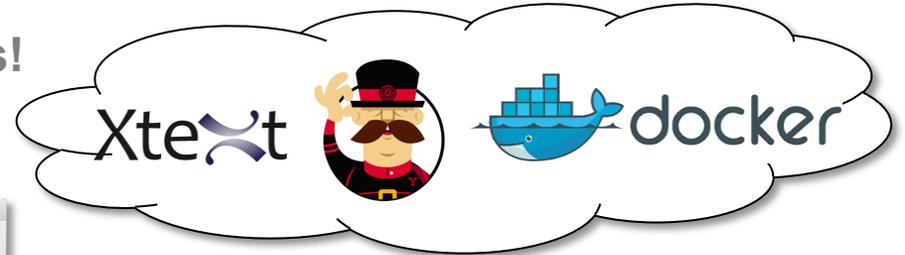
Docker features to build and run a JHipster application directly from the IDE and deploy to the cloud



Supported IDE Products



We want to support all common IDE products!



IntelliJ not yet supported

Demo – „JHipster IDE in Action“



[There is also a tutorial on Youtube!](#)

The screenshot shows a web browser displaying the Meetup page for the 'JHipster' group. The URL is <https://www.meetup.com/JHipster/>. The page features a blue header with the text 'Greetings, Java Hipster!' and a navigation menu with options like Home, Members, Sponsors, Photos, Pages, Discussions, and More. A central section titled 'Welcome to the JHipster Meetup Group' includes a 'Schedule a new Meetup' button and an 'Upcoming (1)' section for an event: 'JHipster IDE Presentation @ Eclipse DemoCamp in Zurich' on Monday, May 29 at 5:30 PM. The event location is 'ETH - Gebäude HG, Rämistrasse 101, Zürich'. A 'What's new' sidebar on the right lists recent members who joined, such as 'stevegreensill', 'Michael V.', 'Fabio Poroli', and 'Florian'. A red and white sticker with the text 'Join our Meetup' is overlaid on the left side of the screenshot.



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