# A RESTy-JSON API with spray.io and maven

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special appearance





thanks!

# special thank you's

JPradel (@agile\_jordi): review and organization

JCasadellà (@jcasadella): review

JRudolph for simplifying step 4

https://github.com/jrudolph/scala-meetup-spray/commit/c4991938ec7b26b183d701aac73949e7822cf45e

#### about me

- n./iŋ'nazi/
- I) problem solver, Garbage Collector, mostly java, learning scala, some agile
- 2) kayaker
- 3) under construction
- 4) wears glasses

### what we saw

- BDD (cucumber)
- TDD (scalatest)
- sbt (inifinite run)
- intellij
- JAX-RS
- Jetty

https://github.com/funcio/bdd-jaxrs-hands-on

#### what we'll see

- BDD (cucumber)
- TDD (scalatest)
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- intellij
- JAX-RS
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- BDD (jbehave?)
- TDD (scalatest)
- mvn (infinite run)
- eclipse (worksheet)
- spray-can/https/...
- spray-json

https://github.com/ignasi35/scala-meetup-spray

# why? (1/2)

- I'm comfy with eclipse
- I'm comfy with maven (I know that's weird)
- (no more) Typesafe delivers a prepacked env
  - still there s/where
- eclipse-maven integration is solid
- I needed infinite-test in maven at work
- I like trolling Jordi and Jose

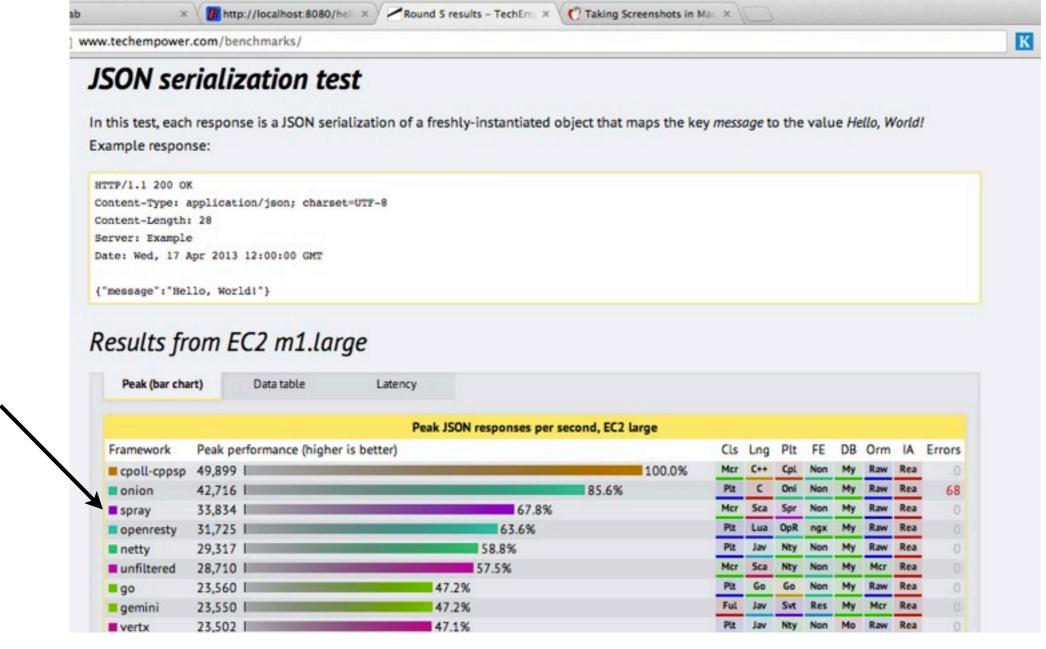
# why? (2/2)

- spray.io has akka
  - spray I.x has akka 2.x
- spray.io is modularized (that's useful)
- I don't need java API (@see play)
- spray-json is f\*&[ing simple (via shapeless)

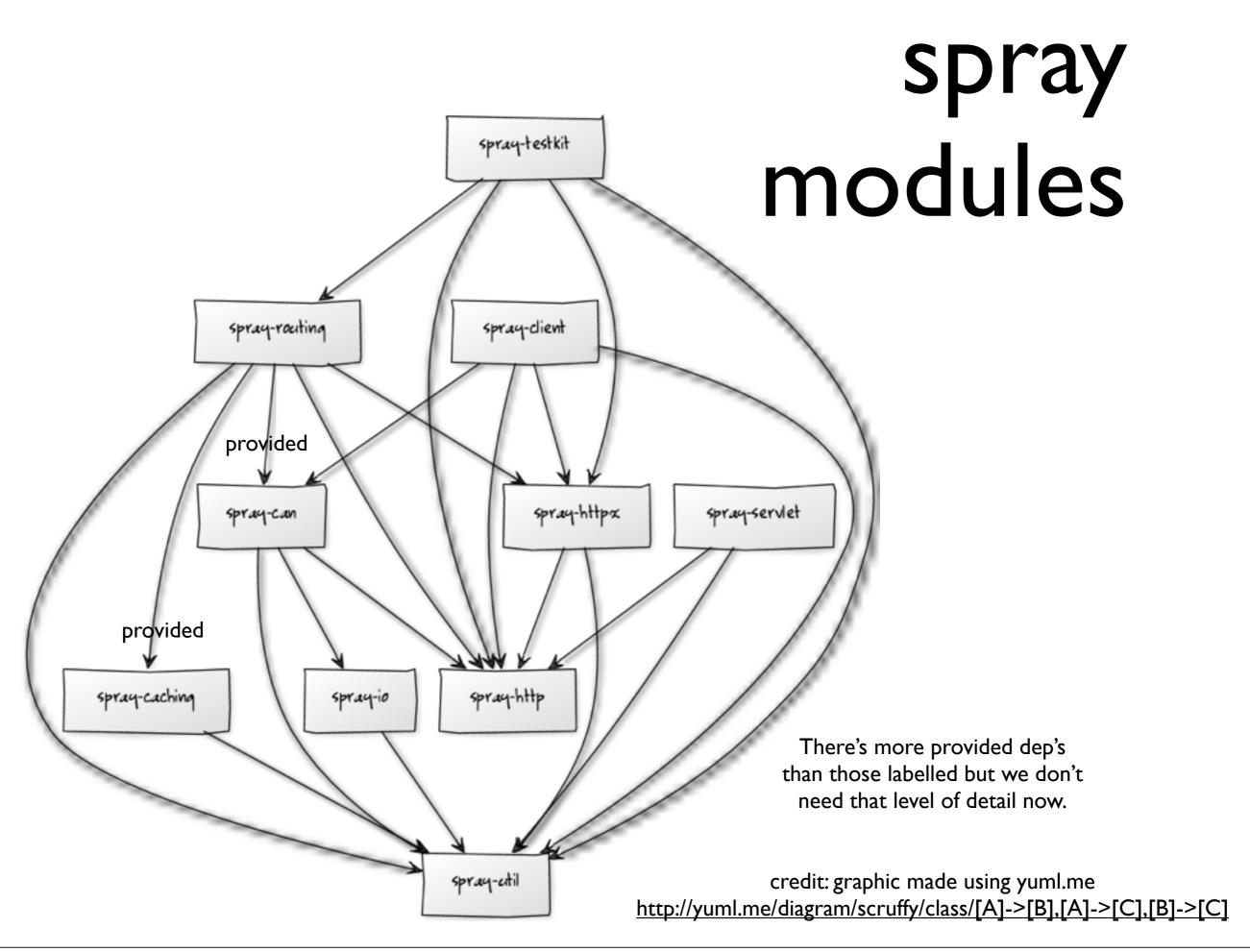
http://spray.io/project-info/current-versions/

# why? (bonus)

spray.io beats all other JVM stacks/fw (\*)



http://www.techempower.com/benchmarks/



#### spray

- One thing done right
- spray-routing => simple entry point.

- @sirthias (Mathias Doenitz) in Akka 2.2
- magnet pattern
  - alternate to method overload
- IOBridge, directives, Marshallers, ...???

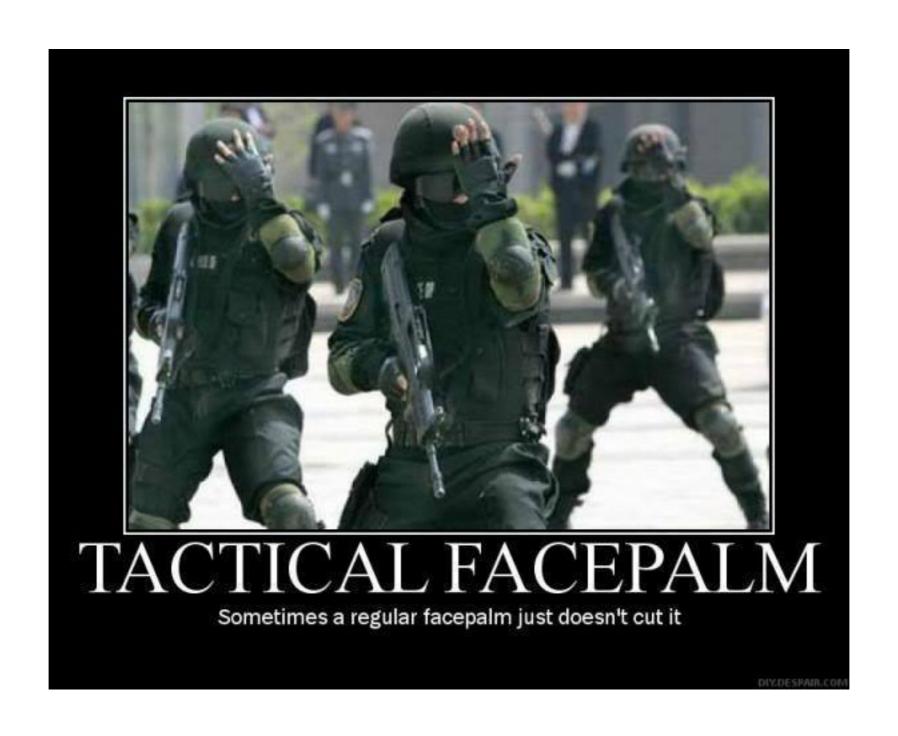


## step l

- Given an HTTP server
- When I GET /hello
- Then I obtain "hello"

# step I (tips)

- Edit a web.xml
- Create a mapping
- Provide a BeanConnectionBeanFactory
- Add a servers.xml
- Invoke the Olds Gods and the New



specially dedicated to @ch4lit

- Given an HTTP server
- When I GET /hello.json
- Then I obtain "{msg: world'}"

# directives + complete

- path/pathPrefix/pathTest
- authenticate
- get/post/delete/...
- decodeRequest/encodeResponse/...
- cache/alwaysCache/...

complete

http://spray.io/documentation/spray-routing/predefined-directives-alphabetically/

- Given an HTTP server
- When I GET /books.json
- Then I obtain the complete books stock

- Given an HTTP server
- And I POST a book.txt in /books
- When I GET /books.json
- Then I obtain the updated books stock

MEGA-KUDOS to <a href="https://github.com/jrudolph">https://github.com/jrudolph</a>

- Given an HTTP server
- And a programmatic HTTP client
- When I GET /hello.json
- Then I obtain "{msg: world'}"

#### conclusions

- scala in maven is tough
  - mvn plugin lacks infini-run, infini-install,...
- scala worksheet rocks
- spray allows a quick entry point
- docs and examples still to be improved
  - because I'm very dumb

• ...

thanks!