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

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special appearance



#### 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

#### what we'll see

- BDD (cucumber)
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- TDD (scalatest)
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- sbt (inifinite run)
- mvn (inifinite run)

intellij

eclipse (worksheet)

JAX-RS

spray-json (shapeless)

Jetty

spray-can/https/...

## why? (1/2)

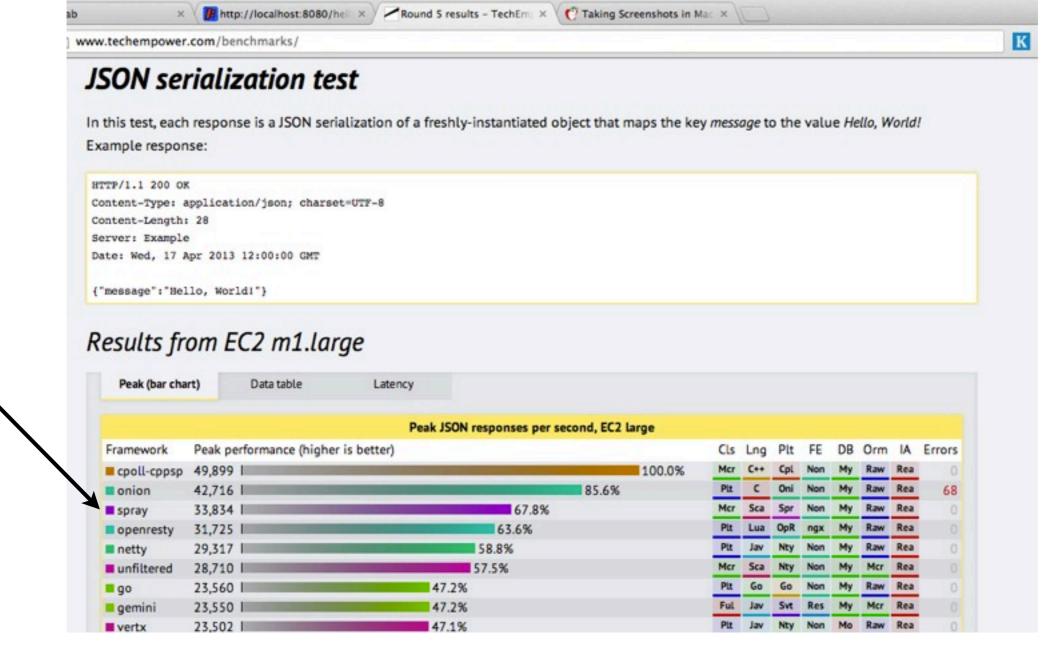
- I'm comfy with eclipse
- I'm comfy with maven (I know that's weird)
- (no more) Typesafe delivers a prepacked env
- eclipse-maven integration is solid
- I needed infinite-test in maven at work
- I like trolling Jordi and Jose

## why? (2/2)

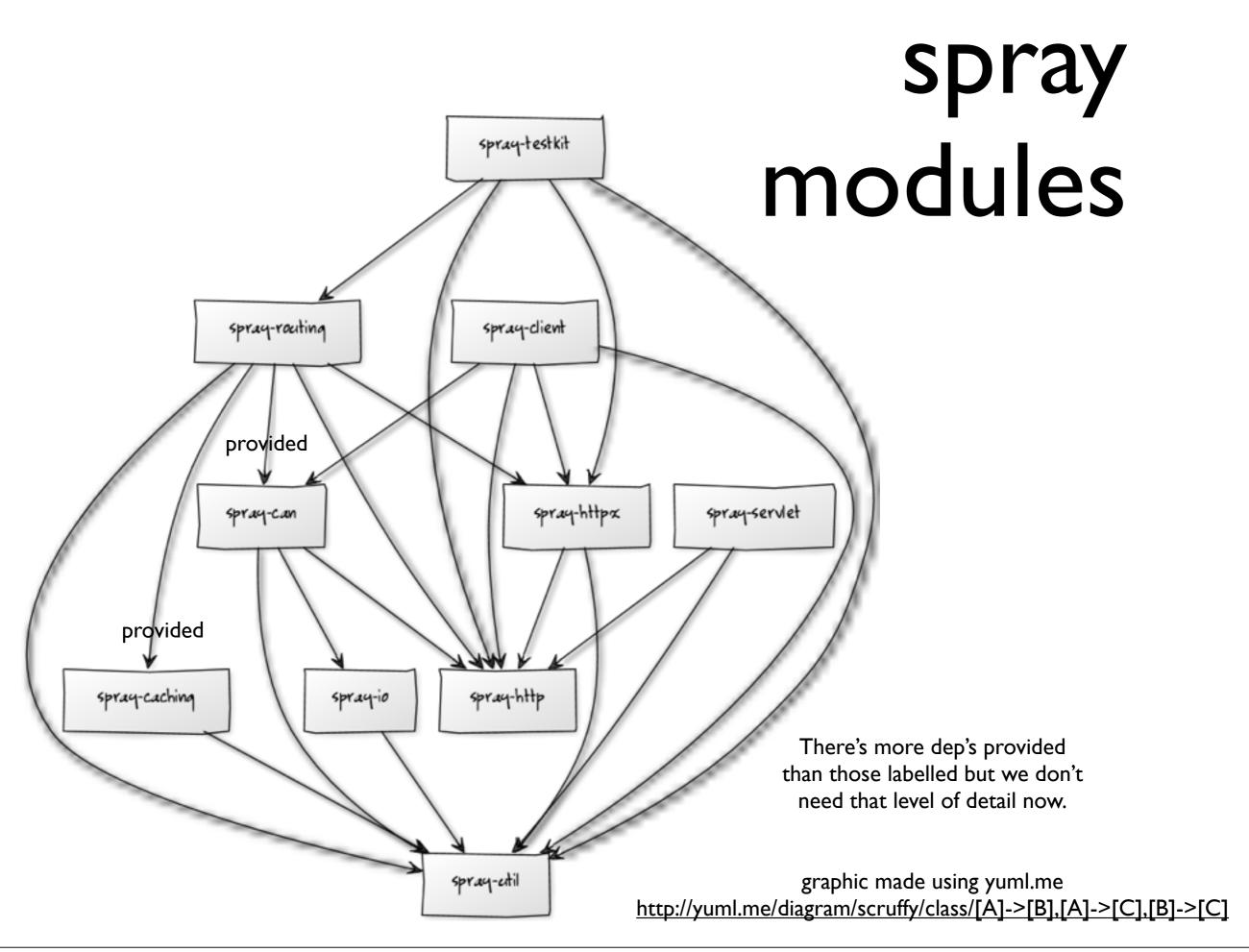
- spray.io has akka
- spray.io is extremely modularized
- I don't need java API (@see play)
- spray-json is f\*&[ing simple (via shapeless)

# why? (bonus)

spray.io beats all other JVM stack (\*)



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



#### spray

spray-routing => simple entry point.

- @sirthias (Mathias Doenitz) in Akka 2.2
- magnet pattern
  - alternate to method overload
- ???



### step l

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

- 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

- 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

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