

JAX-RS and Jersey

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Agenda

- A little, not a lot, about REST
- What is JAX-RS and Jersey
- Demos
 - Overview of JAX-RS
 - Java EE 6: Using EJBs and CDI
 - Jersey with Atmosphere
 - Jersey **Model View Controller** (MVC) with JSPs
 - Jersey MVC with Scalate

REST style

Set of constraints
you apply to the architecture of
a distributed system to induce
desirable properties

REST Web services

Application of REST style to
architecture of services that utilize
Web standards: URIs, HTTP, MIME,
HTML, XML, Atom, RDF, ...

Desirable Properties

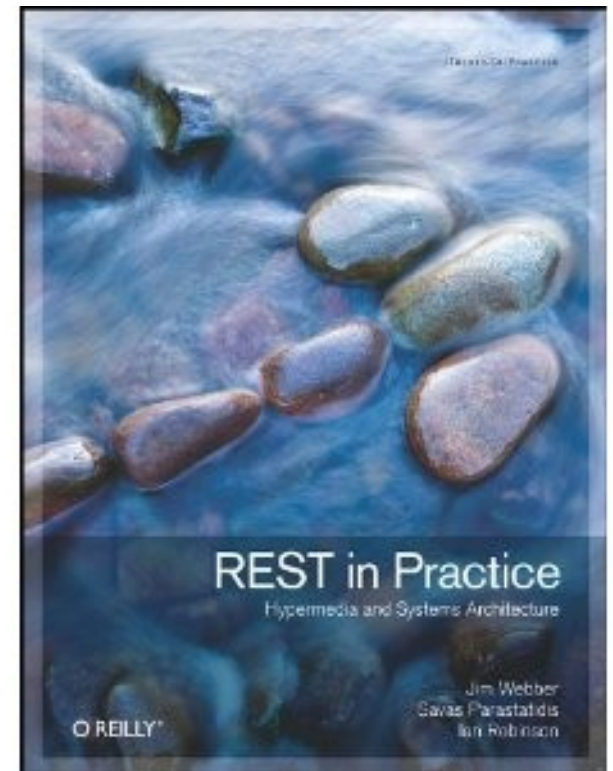
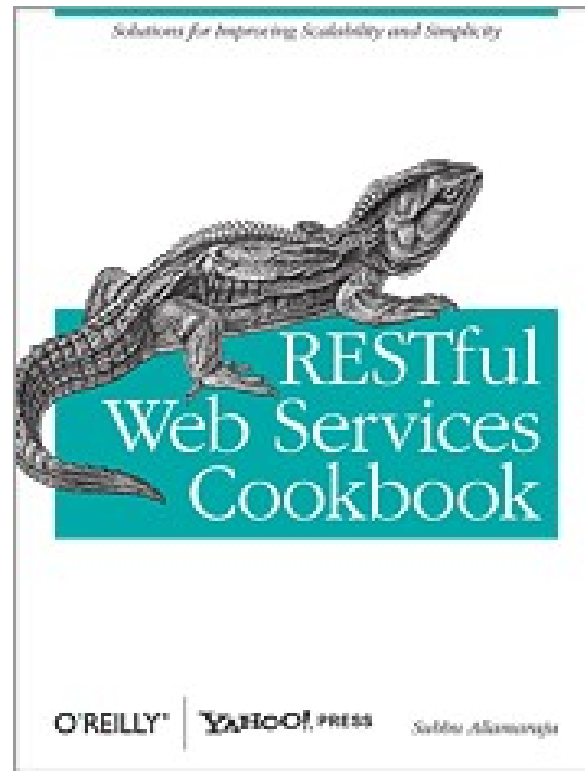
Composition
Loose coupling
Scalability
Serendipity
Simplicity

REST Empowers

Developers can make informed and
predictable engineering decisions
but...

REST is no Free Lunch

Developers need to understand
REST and the Web
to GET the best out of it



JSR 311: JAX-RS

Standard Java-based
annotation-driven API
to **HELP** developers build RESTful Web
services

Jersey

The open source production quality
reference implementation of JAX-RS
And more...

Jersey Features

- Many enhancements
 - See [JavaDoc](#)
- [Client API](#)
- [Guice](#) and [Spring](#) integration
- [JSON](#) with JAXB and Jackson
- [MIME multipart](#)
- [WADL](#)
- [OAuth](#)
- [Testing](#)

<https://jersey.dev.java.net/>



[Jersey User Guide](#)

Client, Server/Grizzly, WADL & JSON

[API](#)

Test Framework

[API](#)

Spring integration

[API](#)

Guice integration

[API](#)

MIME multipart

[API](#)

Client & Apache HTTP client

[API](#)

Atom & Apache Abdera

[API](#)

Simple HTTP server

[API](#)

OAuth support

[Signature](#)

[API](#)

[Server API](#)

[Client API](#)

Status

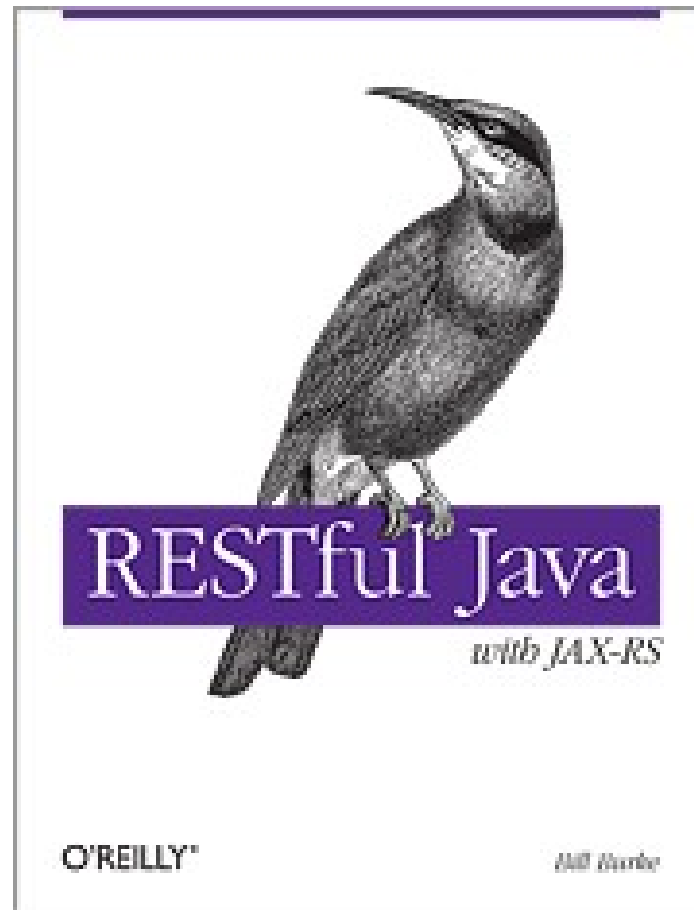
- JAX-RS 1.1 aligns with Java EE 6
- JAX-RS implementations
 - Apache CXF, Apache Wink, JBoss RESTEasy, Jersey, Restlet, Triaxrs
- Jersey 1.1.5.1 latest stable release
 - [Samples](#)
 - Jersey 1.2 to be released soon!
- Jersey shipped with GlassFish and NetBeans

Contribute to Jersey?

- Questions, issues, patches, features, tests, documentation, samples, ...

<mailto:users@jersey.dev.java.net>

RESTful Java with JAX-RS by Bill Burke, JBoss/RESTEasy



Samples require RESTEasy but
Jersey **examples** are available

Links

- GET user guide
 - GET started
 - GET JAX-RS overview
 - GET dependencies
- GET the samples
- Blogs: Paul, Marc, Jakub, Pavel, Aquarium
- JAX-RS API, JAX-RS specification, Jersey API
- JAX-RS Devovx 2008 talk @ Parleys

Atmosphere

- Portable asynchronous Web services
 - Low-level portable runtime
 - High-level ease of use
- Intermix RESTful and asynchronous services
 - HTTP streaming breaks the request/response REST constraint (relax REST!)
 - WebSocket is interesting...
- Uses JAX-RS model
 - And Jersey features for integration

Scalate

“Like JSP but without the crap and with added scala coolness”

- Scala 2.8 based template engine
 - Expressions are in Scala
 - More powerful an EL
- Two template formats supported:
 - [Scala Server Pages](#) which is like Velocity, JSP or Erb from Rails
 - [Scaml](#) which is a Scala dialect of [Haml](#)
- Jersey integration with Model View Controller

Demos