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Building Rich Internet Applications with RichFaces

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Senior Systems Engineer, Exadel

Jay Balunas

JBoss Core Developer, RichFaces

Project Lead, Red Hat

September 3, 2009

Who Are These Guys?

Max Katz

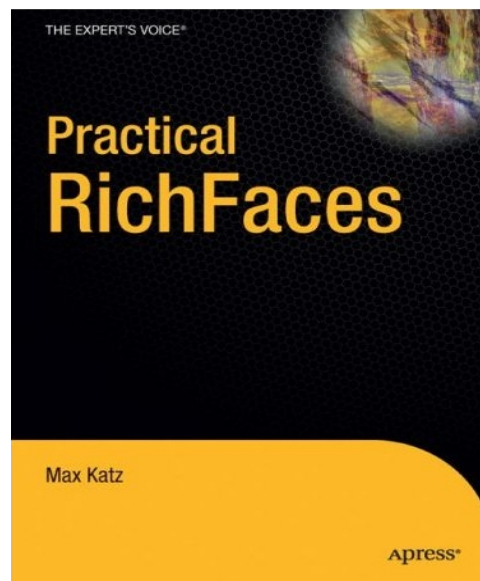
Senior Systems Engineer, Exadel

RIA strategy, development, training

<http://mkblog.exadel.com>

<http://twitter.com/maxkatz>

Author of
Practical
RichFaces
(Apress)



Co-author of
RichFaces
Dzone
RefCard



About Exadel

Products

Open Source (JBoss)

RichFaces (Ajax4jsf)

JBoss Developer Studio
(Eclipse)

JavaFX Studio plug-in
(Eclipse)

Flamingo RIA

Flex/JavaFX with
Seam/Spring

E7: SOA BPM tools

Services

Customized software
development,
maintenance, and
enhancements

Web 2.0/RIA

Custom UI component
development

SOA, cloud services

Who Are These Guys?

Jay Balunas

JBoss Core Developer

RichFaces Project Lead

<http://in.relation.to/Bloggers/Jay>

<http://twitter.com/tech4j>

jbalunas@jboss.org

**Co-author of
RichFaces
Dzone
RefCard**



The Plan

Tell you about RichFaces (Max)

Show you features, example (Max)

Tell you about project, future plans and more (Jay)

RichFaces

RichFaces Is JSF Framework

JSF-AJAX components (100+)

Skins and themes

CDK (Component Development Kit)



RichFaces

JSF-AJAX Components

Over 100 ready-to-use JSF AJAX components

Two tag libraries

- a4j – framework-level AJAX support

- rich – component-level AJAX support

 - Self contained rich components

RichFaces

Skins

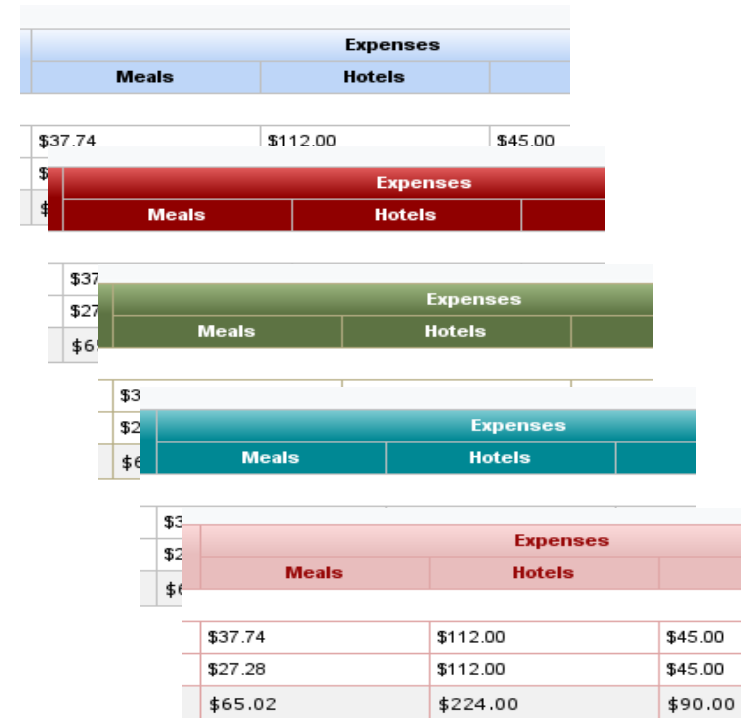
Fonts, color, etc

Change the look-and-feel of pages on the fly

Create custom skins

Themes

Page layout (header, footer, side bar, etc)



Expenses		
Meals	Hotels	
\$37.74	\$112.00	\$45.00
\$27.28	\$112.00	\$45.00
\$65.02	\$224.00	\$90.00

CDK (Component Development Kit)

Facility for creating, generating and testing your own rich JSF components

What Else You Should Know?

Runs in

Any servlet container, application server

Portals: JBoss, Liferay, WebLogic

Works with

JSF 1.1, 1.2, 2.0 (Mojarra, MyFaces)

Works with

Seam, Spring

Works with 3rd party components

Tomahawk, Trinidad, etc.

RichFaces Components Demo

All the components, source code and more:
<http://livedemo.exadel.com/richfaces-demo>

JBoss Tools/JBoss Developer Studio



The screenshot shows the JBoss Developer Studio interface with the following components:

- File Explorer:** Shows the project structure with folders like 'img', 'layout', 'META-INF', 'stylesheet', 'WEB-INF' and files like 'error.xhtml', 'home.xhtml', 'index.html', 'login.page.xml', 'login.xhtml', 'hibernate-console.p', and 'seam001.launch'.
- Code Editor:** Displays the XHTML code for 'login.xhtml'. The code includes a header, a login instruction, and a dialog box with username and password fields.

```
acet name="header">Login</f:facet>

Please login using any username and password</p>

<class="dialog">
<h:panelGrid columns="2" rowClasses="prop" columnClasses="r
  <h:outputLabel for="username">Username</h:outputLabel>
  <h:inputText id="username"
    value="#{identity.username}"/>
  <h:outputLabel for="password">Password</h:outputLabel>
  <h:inputSecret id="password"
```
- Visual Preview:** Shows a rendered login form with the text "Please login using any username and password" and two input fields labeled "Username" and "Password".
- JBoss Tools Palette:** Lists various RichFaces components such as 'calendar', 'changeExpandListener', 'column', 'columnGroup', 'componentControl', 'contextMenu', 'dataDefinitionList', 'dataFilterSlider', 'dataGrid', and 'IJBoss Seam'.
- Outline:** Shows the component tree for the current page, including 'h:panelGrid columns=2', 'h:outputLabel for=username', 'h:inputText id=username', 'h:outputLabel for=password', and 'h:inputSecret id=password'.
- Properties:** Shows the properties of the selected component, including 'access:', 'alt', and 'autoc'.
- Server View:** Shows the status of the server, including 'Server', 'State', and 'Status'.

Let's Build Something

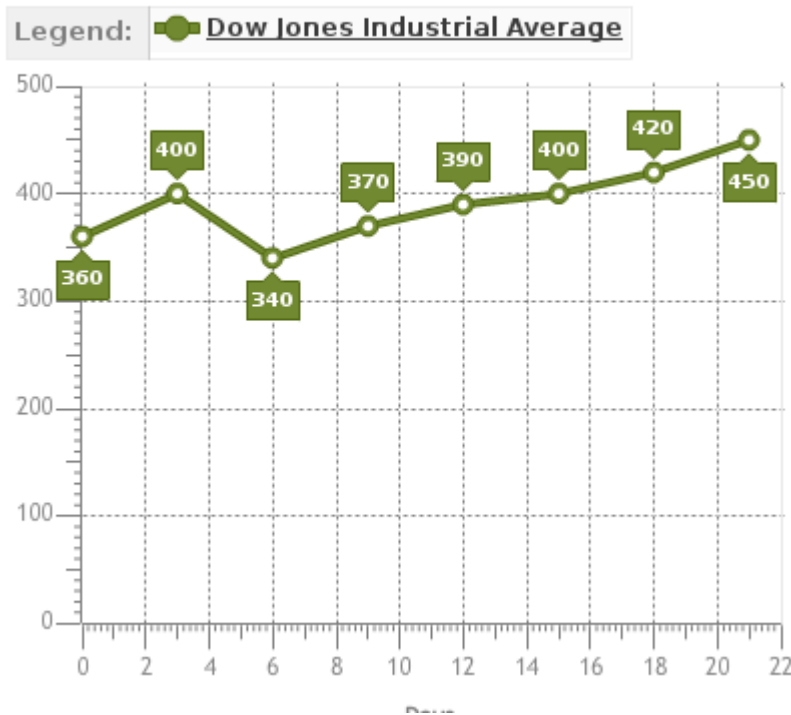


RichFaces

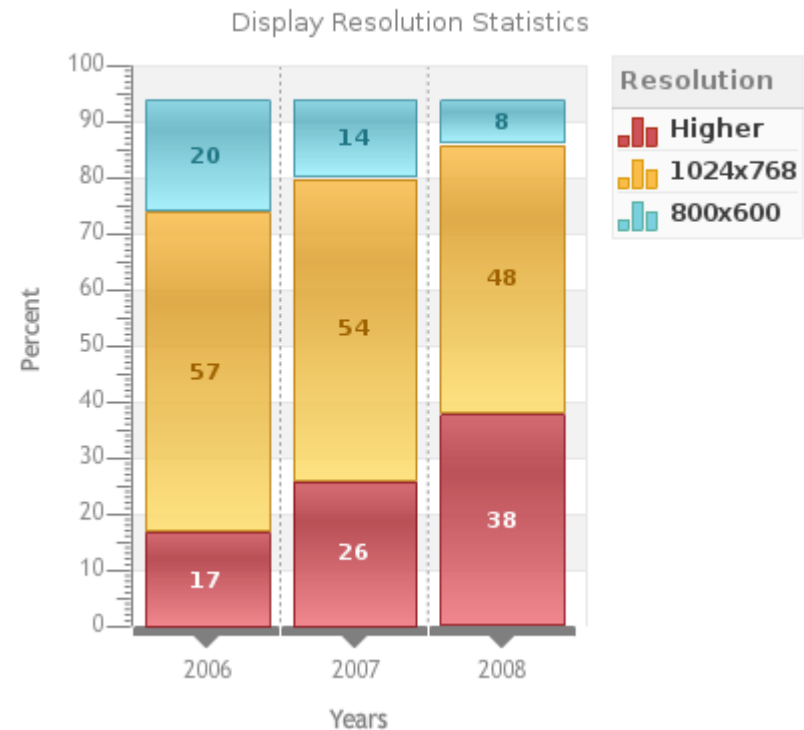
Fiji: JSF with Flex and JavaFX

Integrate JSF with Flex or JavaFX

One-series Line Chart



Simple Stacked Column Chart



Flamingo RIA Framework

Connect JavaFX/Flex to
Seam/Spring back-ends

Features

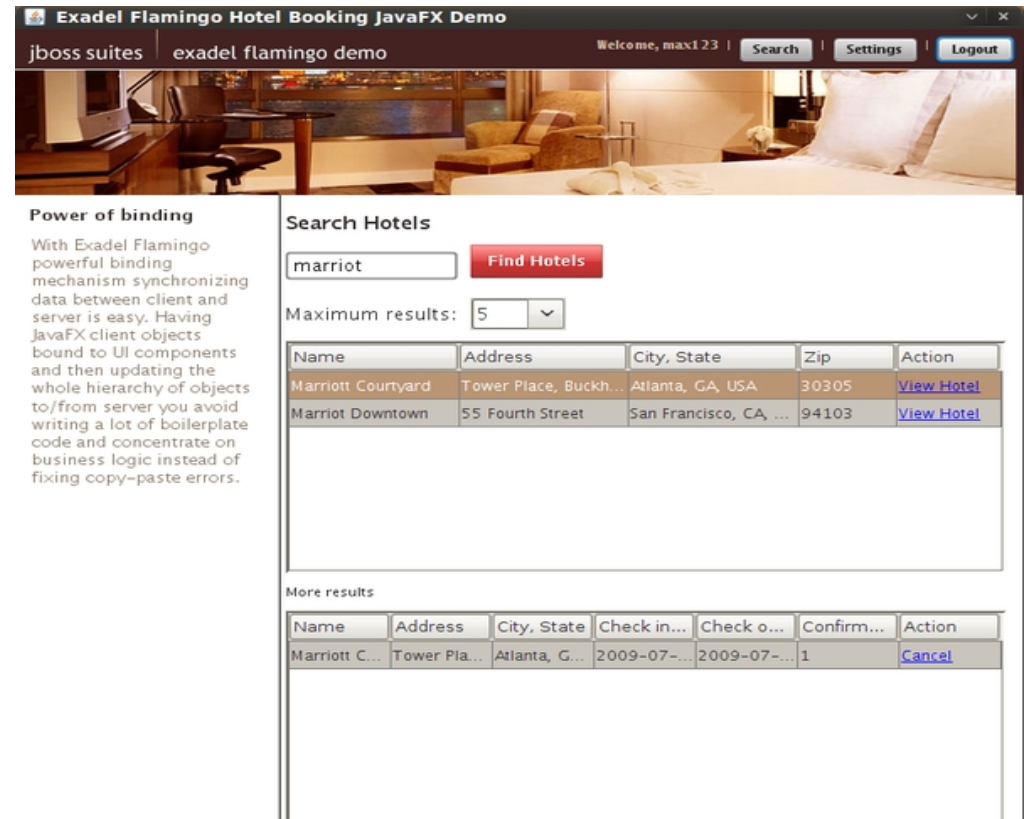
Call Seam components

Seam conversations

Hibernate validation

Binding

Server-side push



The screenshot shows a JavaFX application window titled "Exadel Flamingo Hotel Booking JavaFX Demo". The window has a dark header with navigation links: "jboss suites", "exadel flamingo demo", "Welcome, max123", "Search", "Settings", and "Logout". Below the header is a large image of a hotel room. The main content area is divided into two sections:

Power of binding
With Exadel Flamingo powerful binding mechanism synchronizing data between client and server is easy. Having JavaFX client objects bound to UI components and then updating the whole hierarchy of objects to/from server you avoid writing a lot of boilerplate code and concentrate on business logic instead of fixing copy-paste errors.

Search Hotels
A search input field contains "marriot" and a red "Find Hotels" button. Below it, a dropdown menu shows "Maximum results: 5".

Name	Address	City, State	Zip	Action
Marriott Courtyard	Tower Place, Buckh...	Atlanta, GA, USA	30305	View Hotel
Marriot Downtown	55 Fourth Street	San Francisco, CA, ...	94103	View Hotel

More results

Name	Address	City, State	Check in...	Check o...	Confirm...	Action
Marriott C...	Tower Pla...	Atlanta, G...	2009-07-...	2009-07-...	1	Cancel

RichFaces Project Updates, Release Plan, and More

Mission Statement

Be the de-facto JSF component library for rich Internet application development. Propel innovation and cutting-edge features for the future of the standard and industry. Develop in the open, and focus on community involvement at all levels.

New Logo

Created in the open with the community

Several rounds, lots of voting



Desktop/Mobile Background



<http://www.jboss.org/coolstuff/desktopwallpapers.html>



New Project Site



JBoss Community

Home

Members

Projects

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Search the Community



RichFaces

Overview

Downloads

Documentation

Community

Issue Tracker

Source Code

Build

Search project pages



Rich AJAX enabled components for your JSF applications



Downloads



Demos



Documentation



Community

RichFaces is a component library for JSF and an advanced framework for easily integrating AJAX capabilities into business applications.

- 100+ AJAX enabled **components** in two libraries
 - a4j: page centric AJAX controls
 - rich: self contained, ready to use components
- Whole set of JSF benefits while working with AJAX
- **Skinnability** mechanism
- Component Development Kit (CDK)
- **Dynamic resources** handling
- **Testing facilities** for components, actions, listeners, and pages
- Broad cross-browser support
- Large and active community

Aggregation of RichFaces related blogs, & articles

richfaces: Very cool RichFaces Twitter Portlet by @prabhatjha- <http://tinyurl.com/nx6b9s>

Aug 4, 2009 6:05 PM by (author unknown)

...

richfaces: RT @maxkatz: Turkey travel site uses RichFaces: <http://watchbeforego.com/>

Aug 3, 2009 10:48 PM by (author unknown)

...

richfaces: Good RichFaces community blog article - <http://www.bobsindia.com/bobweb/articles>

New Communications Channels

Twitter

<http://twitter.com/richfaces>

Project updates, blogs, announcements etc...

IRC

#richfaces @ irc.freenode.net

Nearly always up for questions, comments

Weekly Meeting for design, features, planning, etc...

<http://www.jboss.org/community/wiki/RichFacesProjectCalendar>

<http://www.jboss.org/community/wiki/RichFacesTeamMeetingInformation>

RichFaces Release Plans

3.3.X

3.3.2.CR1 latest release

GA coming this month

Supports JSF 1.2

Very stable

Post 3.3.2.GA release moving to maintenance mode

Focus shifts to 4.0.X

Critical issues will still be fixed

Community contributions/patches welcome

RichFaces 4.0.x

Current focus of project!!

JSF 2.0 integration

Behaviors, extensions, events, etc...

Modular build system

Easier to develop

Customizable distributions

Component consolidation and review

Consistency

Performance

Semantic markup

Modules

CDK

Framework

UI (components, skins, themes)

Examples

Docs

UI-sandbox

Examples-sandbox

4.0.X Cross Project Integrations

Seam 3

- Seam-ui components

- Security

- Others...

Webbeans

- Web-beans as managed-beans

Bean Validation

- Client side/Ajax bean validation

TBD

4.0.X Release Plan

Time-boxed releases

ALPHA1 (August)

ALPHA2 (September)

BETA1 (October)

BETA2 (November)

CR1 (January – skipping december)

CR2 (February)

GA (March)

Party Time (April)

Post 4.0.0.GA Release Plans

12 week time-box point releases

4.0.1.GA, 4.0.2.GA etc...

Minor releases targeted 1-2 times a year

More feature driven than point releases

4.1.0.GA tentative for July/August 2010

Gives time for stabilization & innovation

What you expect from JBoss & RichFaces

RichFaces Support Offerings

Enterprise branch based on 3.3.1.GA

Available in:

EAP 4.3_FP01

EAP 5

WFK 1.0

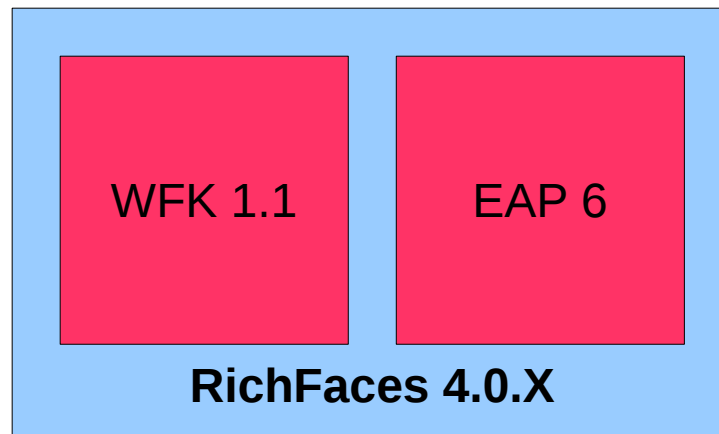
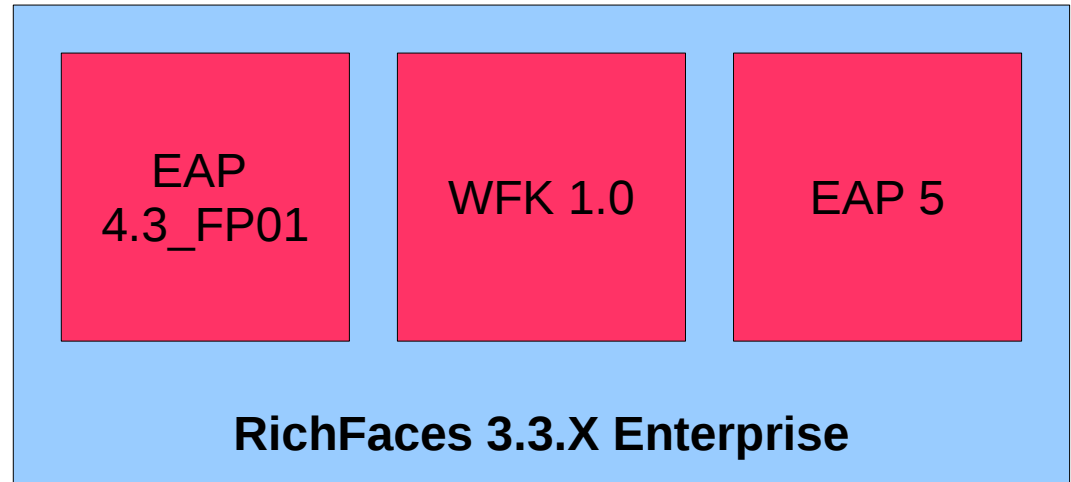
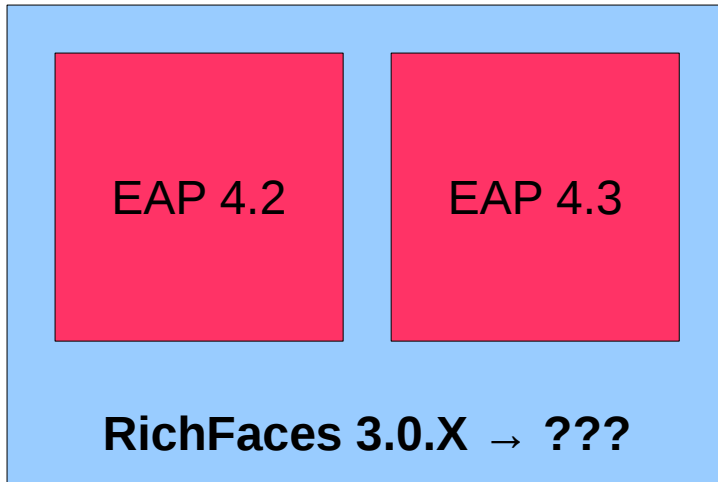
4.0.X support offering

Needs time to mature in community

EAP 6

WFK 1.1

JBoss Platforms For RichFaces Support



Getting Involved and More Information



Project site:

<http://www.jboss.org/richfaces/>

News, forums, wikis, docs, and more

Twitter:

<http://twitter.com/richfaces>

IRC

[#richfaces@irc.freenode.net](http://irc.freenode.net)

Team Meetings

<http://www.jboss.org/community/wiki/RichFacesProjectCalendar>

<http://www.jboss.org/community/wiki/RichFacesTeamMeetingInformation>

QUESTIONS?

**TELL US WHAT YOU THINK:
[REDHAT.COM/JBOSSWORLD-SURVEY](https://redhat.com/jboss-world-survey)**