



DESCRIPTOR SYSTEMS

"We Bring You Up To Speed"

RichFaces Programming

Description	This course teaches developers how to use the RichFaces AJAX-enabled component library for JavaServer Faces.
Audience	Developers who will write JEE applications using RichFaces.
Prerequisites	Java programming skills and JSF experience are mandatory.
Length	2 days
Format	Instructor-led; lecture and hands-on lab exercises.

Detailed Topic List

1. Introduction to the Course

- JBoss RichFaces Programming
- Legal Information
- JBoss RichFaces Programming
- Introductions
- Course Description
- Course Objectives
- Sample Agenda
- Sample Agenda, cont'd
- Course Logistics

2. Introduction to RichFaces

- Introduction to RichFaces
- What is RichFaces?
- RichFaces Features
- RichFaces and JSF
- RichFaces Libraries and Dependencies
- Configuring a RichFaces Web Application
- RichFaces Hello, World
- Chapter Summary

3. Introduction to AJAX

- Introduction to AJAX
- What is AJAX?
- Traditional Web Processing
- AJAX Processing
- AJAX Applications
- Introduction to JavaScript

- Defining JavaScript
- JavaScript Object Syntax
- JavaScript Functions
- JavaScript Variables
- JavaScript Events
- JavaScript Events Example
- Introduction to the HTML DOM
- The DOM Tree
- Accessing Nodes
- Finding HTML Elements by ID
- The XMLHttpRequest Object
- Retrieving an XMLHttpRequest Reference
- Sending a Request with an Asynchronous Response
- Sending a Request with an Asynchronous Response, cont'd
- Using a Servlet to Respond
- Updating the Document
- Complete Example
- Complete Example Listing
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Complete Example Listing, cont'd
- Chapter Summary

4. RichFaces and Ajax

- RichFaces and Ajax
- RichFaces and Ajax
- Ajax4jsf Tags
- Introduction to Partial Page Rendering
- Ajax Requests Without Form Submission
- Using the a4j:support Tag
- Partial Rendering and Validation
- Introduction to Regions
- Defining a Region
- The ajaxSingle Attribute
- Complete Example
- Using the a4j:Log Tag
- Using a JSF Phase Listener
- Chapter Summary

5. More RichFaces Ajax Concepts

- More RichFaces Ajax Concepts
- Partial Page Rendering
- Factors that Affect Rendering
- The reRender Attribute
- The a4j:outputPanel Tag
- The limitToList Attribute
- Regions and Partial Rendering
- Nested Regions
- The process Attribute
- The a4j:poll Tag
- Live Validation
- Live Validation Example

- Optimizing Server Processing During Validation
- Hooking Into the JavaScript
- The a4j:Status Tag
- Chapter Summary

6. RichFaces Component Library Overview

- RichFaces Component Library Overview
- RichFaces Component Libraries
- Categories of rich:xxxx Components
- Chapter Summary

7. RichFaces Output Components

- RichFaces Output Components
- RichFaces Output Components
- The rich:separator Component
- The rich:panel Component
- The rich:panelBar Component
- The rich:simpleTogglePanel Component
- Toggle Control Switch Types
- The rich:tabPanel Component
- The rich:modalPanel Component
- The rich:toolBar Component
- The rich:panelMenu Component
- The rich:progressBar Component
- Chapter Summary

8. RichFaces Input Components

- RichFaces Input Components
- RichFaces Input Components
- The rich:suggestionbox Component
- The rich:comboBox Component
- The rich:inputNumberSpinner Component
- The rich:inputNumberSlider Component
- The rich:calendar Component
- The rich:colorPicker Component
- The rich:editor Component
- The rich:fileUpload Component
- Chapter Summary

9. RichFaces Selection and Menu Components

- RichFaces Selection and Menu Components
- RichFaces Selection Components
- The rich:pickList Component
- The rich:orderingList Component
- The rich:listShuttle Component
- RichFaces Menu Components
- The rich:dropDownMenu Component
- The rich:contextMenu Component
- Chapter Summary

10. RichFaces Iteration Components

- RichFaces Iteration Components
- RichFaces Iteration Components
- The rich:dataList Component
- The rich:dataOrderedList Component
- The rich:definitionList Component

- The rich:dataTable Component
- The rich:dataGrid Component
- The rich:dataScroller Component
- Partial Updates
- Partial Update Example
- Chapter Summary

11. RichFaces Skinning

- RichFaces Skinning
- What is a Skin?
- Predefined Skins
- Specifying a Skin
- Skin Property Files
- Changing Skins Dynamically
- Non-RichFaces Components and Skins
- Writing a Custom Skin
- Chapter Summary

12. RichFaces Performance and Best Practices

- RichFaces Performance and Best Practices
- RichFaces Performance is Complex Issue
- General RichFaces Good Practices
- Ajax Re-Rendering and Partial Updates
- RichFaces Regions and ajaxSingle
- Using Firefox and Firebug
- Continuous Ajax Requests
- Defining a Traffic Queue
- Delaying Transmission
- Ignoring Duplicate Responses
- Reducing the Size of Ajax Responses
- Reducing Response Size Techniques
- Configuring RichFaces to Pack Responses
- Configuring Facelets
- RichFaces Filter Configuration
- RichFaces Filter Configuration Example
- Complete Performance Example
- Chapter Summary