Visual Web Tools Reference Guide

ISBN: Publication date:

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Visual Web Tools

This guide covers the usage of Visual Web Tools in JBoss Developer Studio and JBoss Tools. The difference between these products is that JBoss Tools are just a set of Eclipse plugins where JBoss Developer Studio adds the following functionality:

- an installer
- Eclipse and Web Tools preconfigured
- JBoss EAP with JBoss AS and Seam preconfigured
- 3rd party plugins bundled and configured
- access to RHEL and Red Hat Network
- access to the JBoss/Red Hat supported software

For additional information, please visit the JBoss Developer Studio home page at: <u>http://</u> www.jboss.com/products/devstudio.

In JBoss Tools there is an extensive collection of specialized wizards, editors and views that can be used in various scenarios while developing Web applications. The following chapters walk through these features.

1.1. Key Features of Visual Web Tools

Here is the table of the main features of Visual Web Tools:

Table 1.1. Ke	y Functionalit	y for Visu	ual Web Tools
---------------	----------------	------------	---------------

Feature	Benefit	Chapter
Visual Page Editor	Powerful and customizable visual page editor. Possibility to develop an application using any web technology: jsf, seam, struts, jsp, html and others. Developing using four tabs: visual/source, visual, source and preview. Fast and easy switching between these tabs. Split screen design of visual and source views. Full and instant synchronization between source and visual views. Integration with properties and outline views. Graphical toolbar to add inline styling to any tag.	visual page editor
Multiple Editors	An extensive collection of specialized editors for different file types: properties, TLD, web.xml, tiles, and so on: Graphical Properties Editor, Graphical TLD Editor, Graphical Web	<u>more editors</u>

Feature	Benefit	Chapter
	Application File (web.xml) Editor, CSS Editor, JavaScript Editor, XSD Editor, Support for XML Schema.	
JBoss Tools Palette	Organizing various tags by groups, inserting tags into a jsp or xhtml page with one click, adding custom or 3rd party tag libraries into the palette, easy controlling the number of tag groups shown on the palette.	<u>jboss tools palette</u>
Web Projects View	Visualizing and displaying projects by function. Easy selecting of different kinds of items and dropping them into jsp pages. Using context menus to develop the application. Using icon shortcuts to create and import JSF and Struts projects. Expanding and inspecting tag library files. Selecting custom and third-party tag libraries to drag and drop onto the JBoss Tools Palette.	web projects view
OpenOn	Easy navigation between views and other parts of your projects.	<u>openOn</u>
Content Assist	Code completion proposals while working with html, java, JavaScript , xml, jsp, xhtml, xhtml, seam project and jsf configuration files. Content assist based on project data (dynamic code assist); with graphical editor. Code completion for values from property files, beans attributes and methods, navigation rule outcomes and jsf variables.	content assist
Drag-and-Drop	Possibility of inserting any tag onto the page you are editing by just drag-and-droping it from the palette to this page. Adding any properties, managed bean attributes, navigation rules, tag library file declarations, jsp files from web projects view by clicking them and dragging to source code.	
RichFaces Support	Tight integration between JBDS and <u><i>RichFaces</i></u> frameworks. Easy managing RichFaces components in any web application. Support for RichFaces and Ajax4jsf libraries in JBoss Tools Palette. Rendering RichFaces components in Visual Page Editor.	<u>RichFaces support</u>

Feature	Benefit	Chapter
Flexible Configuration	Various features of JBoss Developer Studio can be easily configured via the Preferences screen.	<u>preferences</u>

1.2. Other relevant resources on the topic

All JBoss Developer Studio/JBoss Tools release documentation you can find at<u>http://</u> <u>docs.jboss.org/tools</u> in the corresponding release directory.

The latest documentation builds are available at <u>http://download.jboss.org/jbosstools/nightly-</u> docs.

Spring Tools

JBoss Developer Studio is bundled with <u>Spring IDE</u> for Eclipse. Visit Spring IDE site for the latest versions and documentation.

2.1. Spring IDE guide

<u>Spring IDE</u> is a graphical user interface for the configuration files used by the <u>Spring Framework</u>. It's built as a set of plugins for the Eclipse platform.

- 2.1.1. Add Spring Project Nature
- 2.1.2. Create New Spring Project
- 2.1.3. Add References To Other Spring Projects
- 2.1.4. Add Spring Beans Config Files
- 2.1.5. Create Spring Beans Config Sets
- 2.1.6. Open Spring Explorer
- 2.1.7. Validate Spring Beans Config
- 2.1.8. Open Spring Beans Graph
- 2.1.9. Search Spring Beans

Editors

In the JSF Tools Reference Guide and Struts Tools Reference Guide you had possibility to read about Graphical Editor for JSF and Struts configuration files, Graphical Editor for Tiles Files, Graphical Editor for Struts Validation Files. All these editors have OpenOn and Content Assist features, which are described in more details in this document. In addition you get to know a Visual Page Editor for combined visual and source editing of Web pages and many other editors for different types of files.

3.1. Editors Features

JBoss Developer Studio has powerful editor features that help you easily navigate within your application and make use of content and code assist no matter what project file (.jsp , .xhtml , .xml , .css , etc.) you are working on.

The mentioned features are the following:

- <u>OpenOn</u>
- <u>Content Assist</u>
- Synchronized Source and Visual Editing

3.1.1. OpenOn

OpenOn lets you easily link directly from one resource to another in your project without using the Package Explorer view (project tree). With OpenOn, you can simply use F3 or Ctrl+Click on a reference to another file and the file will be opened.

OpenOn is available for:

- XML files
- JSP/XHTML Pages
- Java files
- <u>CSS classes</u>
- Paths to files set using EL variable

3.1.1.1. XML Files

Press and hold down the *Ctrl* key. As you move the mouse cursor over different file references in the file, they display an underline. When you hover the name of the file you want to open, click and the file will open in its own editor.

Use the OpenOn functionality for the next entries defined in XML file:

1. Managed beans

In this example the managed bean "User" will open.

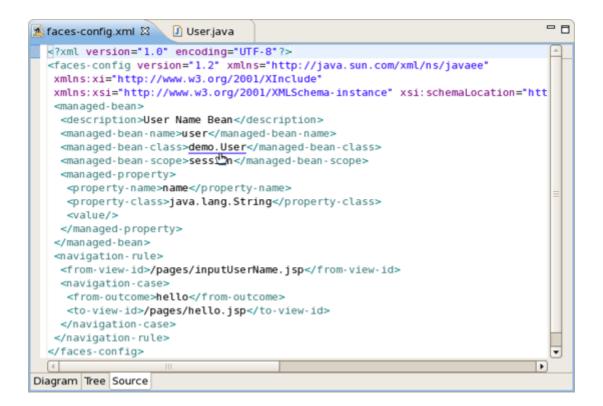


Figure 3.1. Opening a Managed Bean

This is the result of using OpenOn.



Figure 3.2. Opened Managed Bean

2. Beans properties

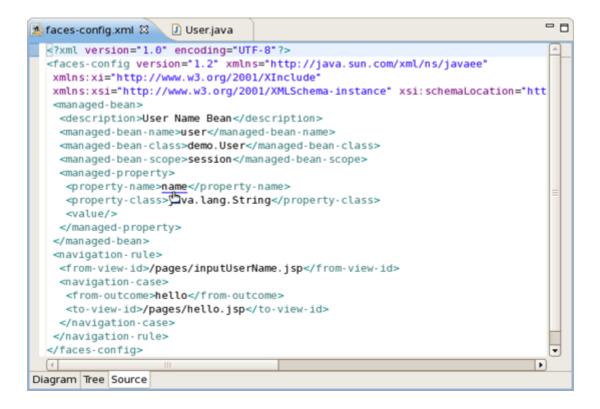


Figure 3.3. OpenOn for the Bean Property

3. JSP file references

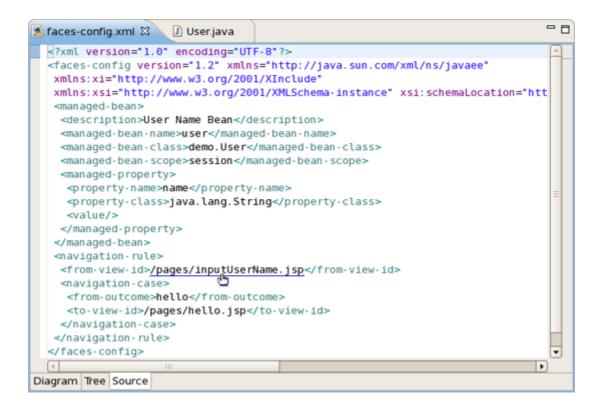


Figure 3.4. OpenOn for JSP Page

3.1.1.2. JSP/XHTML Pages

OpenOn is also available in JSP and XHTML pages edited in the Visual Page Editor. It will allow you to quickly jump to the reference instead of having to hunt around in the project structure.

You can use OpenOn for the following JSP/XHTML file entries:

1. Imported property files

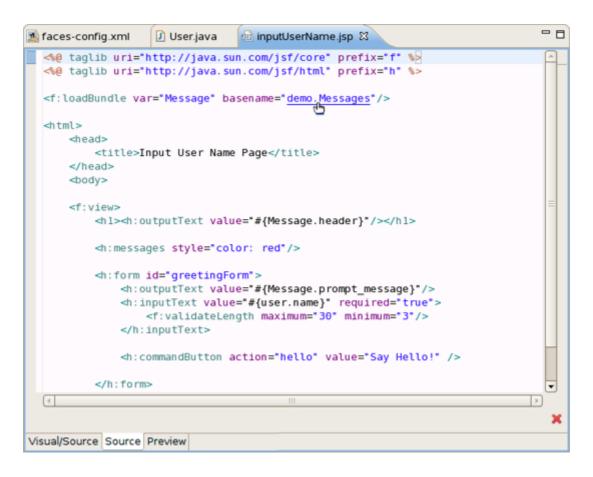


Figure 3.5. OpenOn for Property File Imported to the JSP Page

2. CSS files used in a JSP/XHTML page



Figure 3.6. OpenOn With CSS File

3. Managed beans and their properties

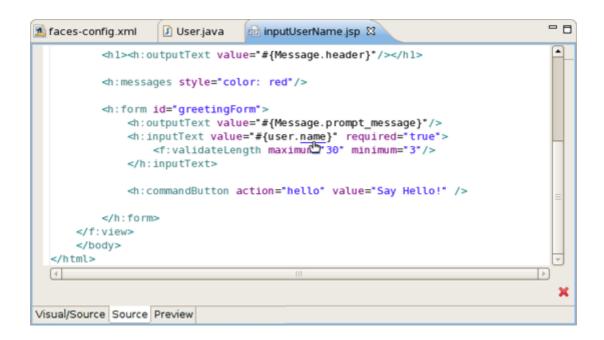


Figure 3.7. OpenOn With Managed Beans

4. Navigation rules in JSP files

For JSP files in a JSF project, you can easily open the navigation rules by applying OpenOn to the JSF tag for the navigation outcome:

🔊 faces-config.xml 🕖 User.java 📾 inputUserName.jsp 🕴	- 8
<pre><hl><h:outputtext color:="" red"="" value="#{Message.header}*/></hl></pre></td><td>_</td></tr><tr><td><h:messages style="></h:outputtext></hl></pre>	
<h:form id="greetingForm"></h:form>	
<h:outputtext value="#{Message.prompt_message}"></h:outputtext>	
<h:inputtext required="true" value="#{user.name}"></h:inputtext>	
<f:validatelength maximum="30" minimum="3"></f:validatelength>	
<h:commandbutton action="hello" value="Say Hello!"></h:commandbutton>	=
	~
	×
Visual/Source Source Preview	

Figure 3.8. OpenOn with JSF Tag

5. Custom Facelets tag libraries in XHTML pages

For details, see <u>"OpenOn for Custom Facelets Tag Libraries</u>" later in this guide.

6. Custom JJSF 2.0 components

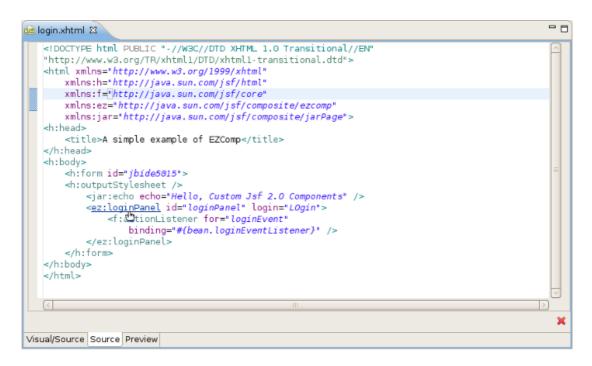


Figure 3.9. OpenOn with JSF 2.0 Component

3.1.1.3. CSS Classes

You can quickly navigate through CSS classes using OpenOn

🖹 theme.css 🗖 📾 index.html 😫	- 0
<pre><!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtm <html <br="" xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html">xmlns:rich="http://richfaces.org/rich"> <head> <style type="text/css"> .name {color: green;} .body {color: blue;} </style> <link href="theme.css" rel="stylesheet"/> </head> <body> <div class="name">VPE Editor</div> <div class="name">VPE Editor</div> </body> </html></pre>	nl1/[
	>
	×
Visual/Source Source Preview	

Figure 3.10. OpenOn With CSS Class

OpenOn is also implemented for css classes added by a complex link.

🖹 theme.css 📠 index.html 🕴	- 0
<pre><!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/ <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> <html xmlns="http://www.w3.org/1999/xhtml" xmlns:h="http://java.sun.com/jsf/html"> </html> </pre>	

Figure 3.11. OpenOn With CSS Class added by a complex link

3.1.1.4. OpenOn for EL variables

OpenOn can be used for paths to files set with EL variable.



Figure 3.12. OpenOn for paths to files set with EL variable

3.1.2. Content Assist

Content assist is available when working with

- Seam project files
- JSF project files
- Struts project files

- JSP files
- XHTML files
- <u>RichFaces components</u>
- ESB XML files

Notice, that code completion for EL variables has icons illustrating what they are from. Currently it's performed for resource bundles, JSF and Seam components.



Figure 3.13. JSF Content Assist

<pre><rich:toolbargroup location="right"></rich:toolbargroup></pre>	<pre>}" rendered="#{identity.logg</pre>	
<pre><s:link rend<br="" value="Login" view="/login.xhtml"></s:link></pre>		

Figure 3.14. Seam Content Assist

Also, as you can see, the ranking and sorting are available in EL code completions.

3.1.2.1. JSF Project Files

When working with JSF project in JBoss Developer Studio, you can use various Content Assist features while developing:

- · Content Assist for XML, XHTML, JSP and JSF configuration files
- Content Assist for Composite Components
- · Content Assist based on project data
- Content Assist with graphical JSF editor

3.1.2.1.1. Content Assist for XML, JSP and JSF configuration files

At any point when working with any XML, JSP and JSF configuration files Content Assist is available to help you. Simply type *Ctrl-Space* to see what is available.

Content Assist for JSF configuration file:

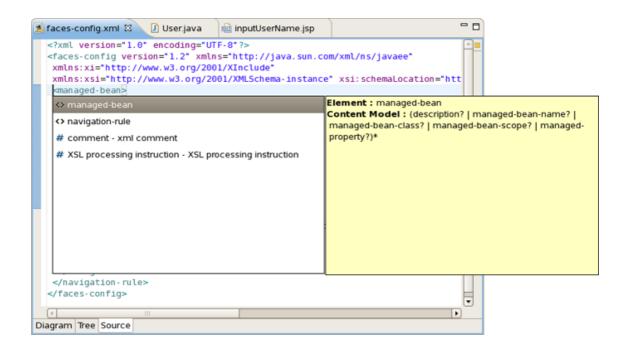


Figure 3.15. Content Assist in JSF Configuration File

Content Assist for JSF JSP file:

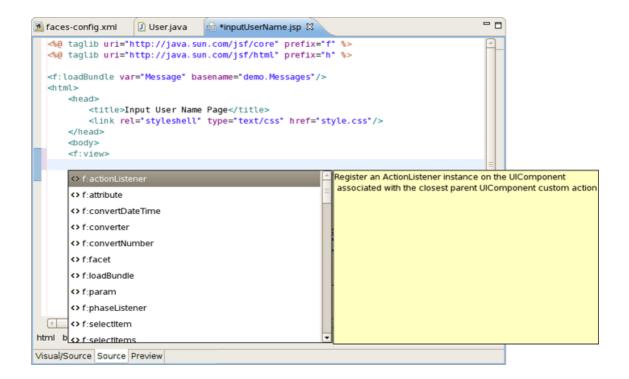


Figure 3.16. Content Assist in JSP File

Content Assist for other JSF XML project files (web.xml shown):

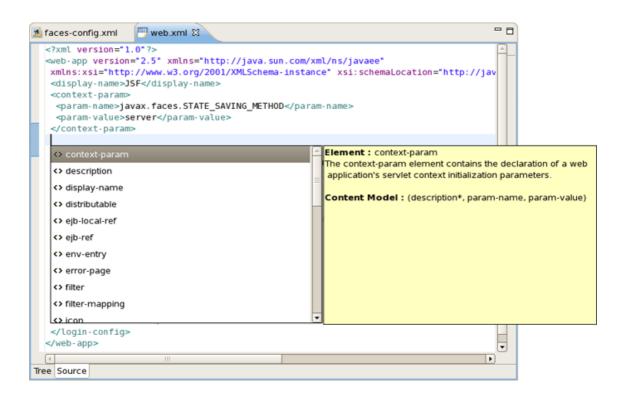


Figure 3.17. Content Assist in web.xml File

3.1.2.1.2. Content Assist for Composite Components

Content assist functionality is also available for composite components. On the screen is shown content assist for a composite component file "tag.xhtml" within a JSF 1.2 project with facelets

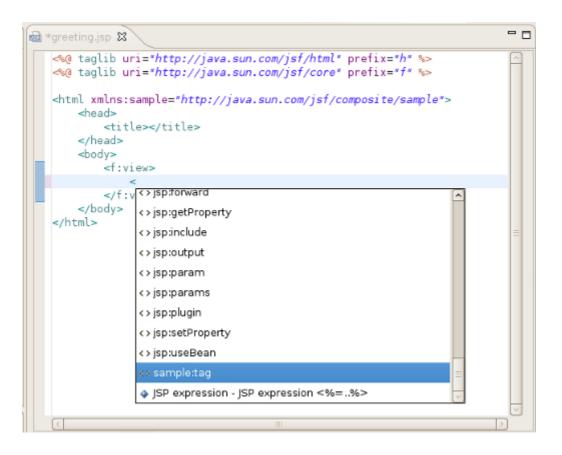


Figure 3.18. Content Assist in web.xml File

3.1.2.1.3. Content Assist Based on Project Data

JBoss Developer Studio takes Content Assist to the next level. Studio will constantly scan your project and you will be able to insert code into the JSP page from your project that includes:

- Values from Property files
- "Managed beans" attributes and methods
- Navigation Rule Outcomes
- JSF variables (context, request etc...)

The figure below shows how to insert message from a Properties files. You simply put the cursor inside the *"value"* attribute and press *Ctrl-Space*. JBoss Developer Studio will scan your project and show a list of possible values to insert.

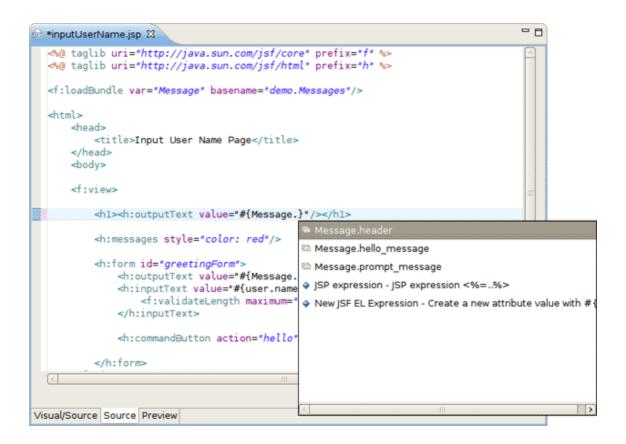


Figure 3.19. Inserting Message

In the following screenshot we are inserting a *"Managed bean"* attribute value. Again, by simply clicking *Ctrl-Space*, JBoss Developer Studio will show a list of all possible values that you can insert.

Once you select a Managed bean, it will show you a list of all available attributes for the selected Managed bean (userBean).

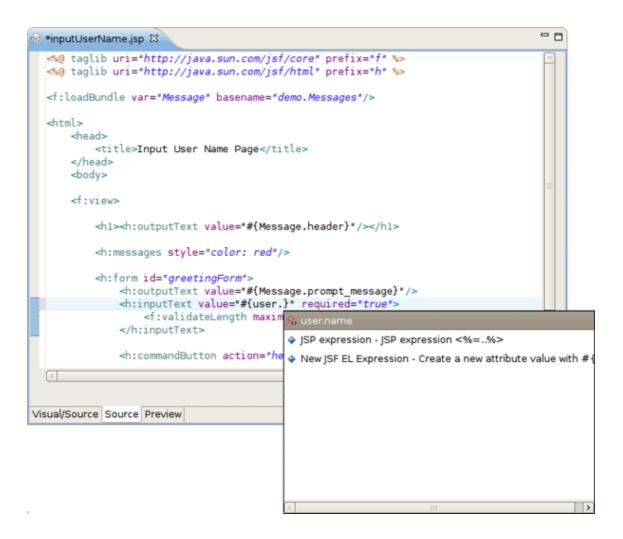


Figure 3.20. Attributes List

Code Assist based on project data will also prompt you for navigation rules that exist in your JSF configuration file.

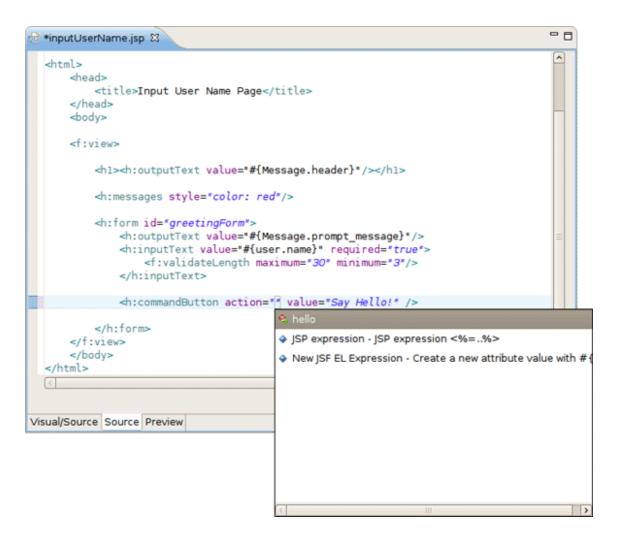


Figure 3.21. Code Assist

Code Assist can also provide you with access to the beans located in jar archives.

🗟 *inputUserName.jsp 🕴	- 0
<pre><html> <head> <title>Input User Name Page</title> </head> <body> <f:view></f:view></body></html></pre>	

Figure 3.22. Code Assist: accessing beans in jar archives

3.1.2.1.4. Content Assist within Tree JSF Editor

JBoss Developer Studio also provides Content Assist when working within the Tree JSF configuration editor. Just click *Ctrl-Space*.

🔊 *faces-config.xml 🕴 🔛 web.:	xml 🛛 📾 inputUserName.jsp	- D
Faces Config Editor		
▼ faces-config	▼ Factories	
 Faces-config.xml* Application Components Converters Converters Anaged Beans Render Kits Render Kits Validators Extensions 	Application-Factory: Con Faces-Context-Factory: Image: Context-Factory: Lifecycle-Factory: Image: Context-Factory: Render-Kit-Factory: Image: Context-Factory: V Lifecycle phase-listener Image: Context-Factory:	n.su <u>B</u> rowse Com.sun com.sun.accessibility com.sun.accessibility.internal com.sun.accessibility.internal.resources com.sun.activation com.sun.activation.registries com.sun.activation.viewers com.sun.beans com.sun.codemodel com.sun.codemodel util
Diagram Tree Source		
angrant nee bource		

Figure 3.23. Content Assist in Tree JSF Configuration Editor

3.1.2.2. Struts Project Files

Content Assist features are available when you work with Struts projects.

3.1.2.2.1. Content Assist for Struts Configuration File

Content Assist helps you in Struts Configuration file.

*struts-config.xml 🛙	
	are Foundation//DTD Struts Configuration 1.2//EN
<pre><struts.config> <data-sources></data-sources> <form-beans> <form-bean <="" getname"="" name="GetNameForm" path="/pages/inputname" pre="" type="demo.GetNa </form-beans> <global-exceptions/> <global-forwards> <forward name="></form-bean></form-beans></struts.config></pre>	
<action <="" name="GetNameForm" p="" path="/greeting"></action>	scope="request" type="demo.GreetingAction">
tribute : attribute	O attribute
ata Type : CDATA	(a) className
	() forward
	(0) id
	(a) include
	(a) input
	(a) parameter
	(a) prefix
	(a) roles
	(a) suffix
	() sumx () unknown="true"

Figure 3.24. Struts Content Assist

3.1.2.2.2. Content Assist for Struts JSP File

Using Code Assist in Struts JSP file is shown below.

<bean :<="" th=""><th>/ > *</th><th></th><th></th></bean>	/ > *		
<table< th=""><th><> bean:cookie</th><th>^</th><th>Element : bean:cookie</th></table<>	<> bean:cookie	^	Element : bean:cookie
<t< th=""><th><> bean:define</th><th></th><th></th></t<>	<> bean:define		
</th <td><> bean:header</td> <td></td> <td></td>	<> bean:header		
<t< th=""><td><> bean:include</td><td></td><td></td></t<>	<> bean:include		
	<> bean:message	=	
	🗘 bean:page		
	🗘 bean:parameter		
<td>() heap-recourse</td> <td></td> <td></td>	() heap-recourse		
-	⇔ bean:size		
%> 	<> bean:struts	•	
4			
Visual/Source Sour	ce Preview		

Figure 3.25. Struts JSP Content Assist

3.1.2.3. JSP Pages

3.1.2.3.1. Content Assist for JSF Tags

JBDS provides full code completion for JSF tags:

inputname.xhtml 🔯 inputUserName.jsp	🖅 *hello.jsp 🕅	- 6) 🚿 JBoss Tools Palette 🕱 🛛 🗖		
<pre><@ taglib uri="http://java.sun.com/ <@ taglib uri="http://java.sun.com/ <f:loadbundle <html="" basename="" var="Message"></f:loadbundle></pre>	jsf/html" prefix="h"%>	<u> </u>	 JBoss Ajax4jsf JBoss RichFaces JBoss Seam JBoss Seam taglib button cache convertDateTime convertEnum 		
<h: 1<="" td=""><td></td><td>Renders an HTML "input" ele</td><td>ment of "type" "text".</td></h:>		Renders an HTML "input" ele	ment of "type" "text".		
		Decode Behavior Obtain the Map from the "re	questParameterMap" property of the		
	sion <%=%>	Obtain the Map from the "requestParameterMap" property of th ExternalContext. If theMap contains an entry for the "clientid" of the component, pass the value of the entry to thesetSubmittedValue() method of the component, which must be an instance of EditableValueHolder. Encode Behavior Render the clientid of the component as the value of the "name" attribute. Render the current value of the component. the value of the "value" attribute. If the "styleClass" attribute is specified, render its value as the value of the "class" attribute.			
Visual/Source Source Preview		×	SF HTML		

Figure 3.26. JSF Tags Content Assist

When the tag is selected the required attributes, if there any, are already inserted and the cursor is located to the first attribute. At this point you can ask for attribute proposals.

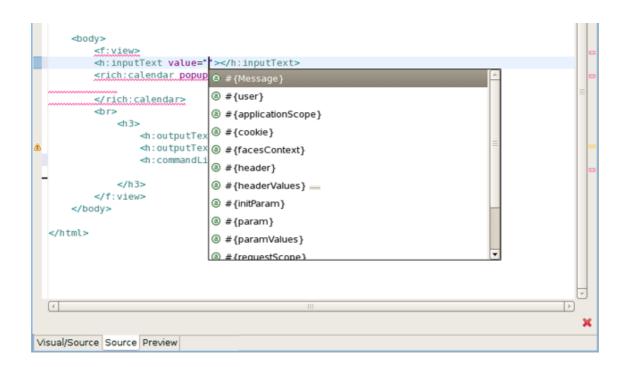


Figure 3.27. Attributes Content Assist

3.1.2.3.2. Content Assist for JSTL Tags



Figure 3.28. JSTL Tags Content Assist

3.1.2.3.3. Content Assist for HTML Tags

Content assist for HTML tags has the same mechanism as for JSF tags:

<₽	ody>	
1	n>	
	<> input	Defines a form control for user input
	<> ins	
	JSP expression - JSP expression <%=%>	
۵		
</td <td>b</td> <td></td>	b	
		<u>v</u>
4	III	
		×
Visual/Sou	rce Source Preview	

Figure 3.29. HTML Tags Content Assist

You can use as well attributes proposals for HTML tags:

<ri><rich:cai <</rich:cai </ri>	"button" "checkbox" "file" "hidden" "image" "password" "ratio" "contin	Attribute : type Data Type : ENUM Enumerated Values : - text - password - checkbox - radio - submit - reset - file - hidden - hidden - image - button
Visual/Source Source	111	

Figure 3.30. HTML Tags Content Assist

3.1.2.3.4. Content Assist for JavaScript Tags

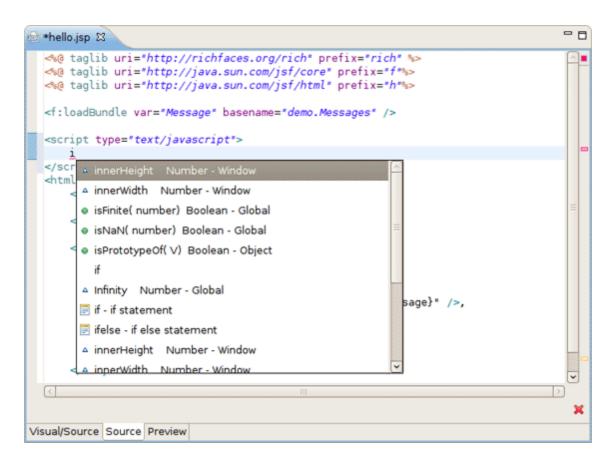


Figure 3.31. JavaScript Tags Content Assist

3.1.2.4. Content Assist for XHTML Pages

The code completion for the Seam components in a Seam project shows the proposals marked with Seam icon.

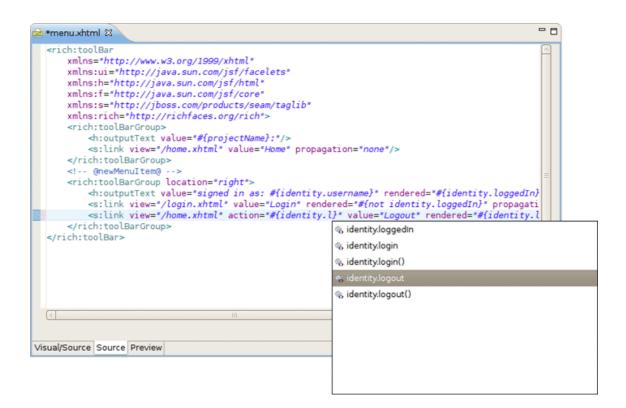


Figure 3.32. Content Assist for Seam Components in the XHTML Page

If XHTML file uses custom Facelets components, the Content Assist should also be available for them. For details, see <u>"Content Assist for Custom Facelets Components"</u> later in this guide.

3.1.2.5. Adding dynamic code assist to custom components that were added to JBoss Tools Palette

Here is what you need to do to add project based code assist to a custom component added in JBoss Developer Studio:

1. Create a new xml file in <JBDS_home>studio/eclipse/plugins/org.jboss.tools.common.kb_***/ schemas/tld/. For example call it JeniaFaces.xml . The file should be written according to <JBDS_home>/studio/eclipse/plugins/org.jboss.tools.common.kb/kb.jar/org/ jboss/tools/common/kb/kb-schema_1.0.dtd

Follow these steps to set what is available for code assist:

• Adds code assist for JSF pre-defined objects, such as value="#{param}" :

```
<AttributeType ...>
<proposal type="jsfVariables"/>
</AttributeType>
```

• Add bundle resource (property file) code assist:

```
<AttributeType ...>
<proposal type="bundleProperty"/>
</AttributeType>
```

• Add managed bean property code assist:

```
<AttributeType ...>
<proposal type="beanProperty"/>
</AttributeType>
```

• Add managed bean property but of a specified type:

```
<AttributeType ...>
<proposal type="beanProperty">
<param name="type" value="java.lang.Boolean"/>
</proposal>
</AttributeType>
```

• Add managed bean method with a signature:

```
<AttributeType ...>
<proposal type="beanMethodBySignature">
<param name="paramType" value="javax.faces.context.FacesContext"/>
<param name="paramType" value="javax.faces.component.UIComponent"/>
<param name="paramType" value="java.lang.Object"/>
<param name="returnType" value="void"/>
</proposal>
</AttributeType>
```

1. Add information on your xml file in <JBDS_home>/studio/eclipse/plugins/ org.jboss.common.kb_***/plugin.xml

<tld jsf="true" name="Jenia Faces"
schema-location="schemas/tld/myJSF.xml"
uri="http://www.jenia.org/jsf/dataTools"/>

2. Restart Eclipse. You should now have code assist for the component.

3.1.3. Synchronized Source and Visual Editing

JBoss Developer Studio offers the flexibility to edit any files in either source or extra visual modes at the same time.

The project is yours and so is the source. JBoss Developer Studio provides you many different graphical editors to speed your application development. At the same time, you always have a full control over all project source files. Any changes you make in the source view immediately appear in the graphical view.

The JSF configuration file editor has three views: Diagram, Tree and Source. All views are synchronized, you can edit the file in any view.

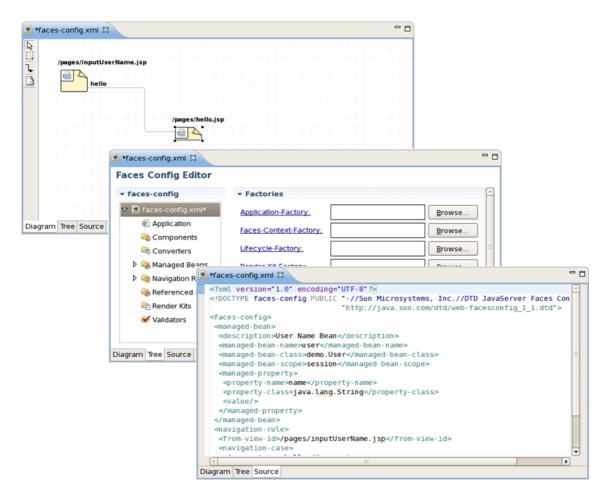


Figure 3.33. Three Views are Synchronized

The same is relevant to all other JBoss Developer Studio editors.

Web XML editor is shown. Web XML editor has a graphical view (Tree) and source (Source).

📇 web.xml 😫		- 8	
Web XML Editor			
▼ web	- Web Descript	tor 2.4	
 web.xml Gontext Params Filters Filters Filters Servlets Session-config Mime Mappings welcome-file-list Error Pages JSP Config Security Constrain Iogin-config Security Roles Env Entries Env Entries 	<pre><web-app <display-name="" http:="" version="2 xmlns:xsi=">JSFk: <context-param></context-param></web-app></pre>	<pre>78 4* xmlns="http://java.sun.com/xml/ns/j2ee" www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.co ickstart faces.STATE_SAVING_METHOD er om.sun.faces.config.ConfigureListener :> es Servlet vax.faces.webapp.FacesServlet 1imapping> es Servlet if</pre>	
	Tree Source		

Figure 3.34. Two Views are Synchronized

JBoss Developer Studio TLD file editor is shown in Tree view. At any point you can edit the source by switching to Source view.

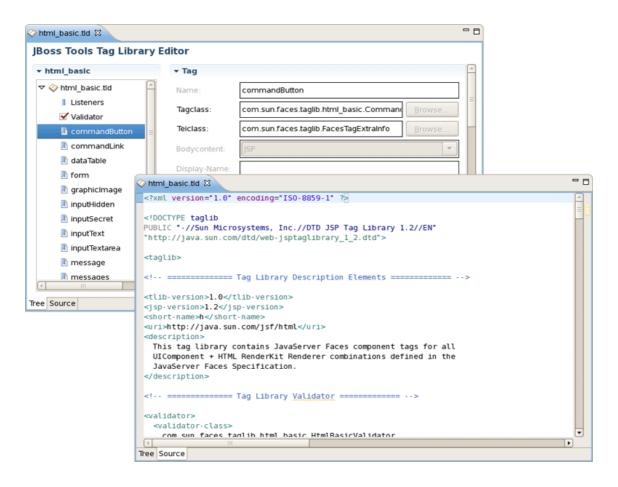


Figure 3.35. Two Views are Synchronized

3.2. Visual Page Editor

JBoss Developer Studio comes with a powerful and customizable Visual Page Editor (VPE). You can use the Visual Page Editor to develop an application using any technology: JSF, Struts, JSP, HTML and others. Double-click on the necessary file in the Package Explorer view to open it in the Visual Editor or just drag-and-drop it into perspective (the drag-and-drop feature can be also applied to JSP, XHTML or HTML files created locally).

As a new JSF 2.0 specification has been released, support of new features is now implemented in the Visual Page Editor. The JSF 2.0 tags like <h:body>, <h:head>, <h:outputscript>, <h:outputstyle> are supported in the editor as well as the composite components and the resource handling from the expression language. (See the *following link* on how to use composite components and *following blog post* on how to handle the resources form the EL).

Current VPE version has three tabs: Visual/Source, Source and Preview. To switch between the views you can use tabs at the bottom of the VPE or the shortcuts Ctrl + PageUp/Ctrl + PageDown.

nd log	gin.xhtml 🕴 🗖	٥				
* * *	<pre> <!DOCTYPE composition PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//E</th> </pre>					
A	↓ - Font Name - ↓ - Font Size - ↓ B I U *					
(n.)	#{projectName}: <u>Home</u> Welcome, #{identity.username}! <u>Login Logout</u>	4 11				
	Error Messages					
	Login	~				
	▽	x				
Visua	al/Source Source Preview					

Figure 3.36. Visual Page Editor

3.2.1. Visual/Source View

Using the Visual/Source view you can edit your pages in the Source and Visual modes simultaneously having an instant synchronization between them:

nd lo	gin.xhtml 83	- 8
%	Prease Login nere	^
2	<div class="dialog"></div>	
6	<pre><h:panelgrid columnclasses="r</th><th>é</th></tr><tr><th></th><th><h:inputText id=" columns="2" rowclasses="prop" th="" username"<=""><th></th></h:panelgrid></pre>	
13	<pre>value="#{identity.username}"/></pre>	H
22	<pre><h:outputlabel for="password">Password</h:outputlabel></pre>	
[T]	<pre><h:inputsecret id="password" value="#{identity.password}"></h:inputsecret></pre>	
	<pre><h:outputlabel for="rememberMe">Remember me</h:outputlabel></pre>	b 🗸
		\sim
À		-
(11.)	🗘 - Font Name - 🗘 - Font Size - 🗘 B I U 🦽 🛧	
		<u> </u>
	Error Messages	_
	Login	=
	Login	
	Please login here	
	Username [#{identity.username}]	
		×
	$^{\bigtriangledown}$ ui:composition ui:define h:form rich:panel div h:panelGrid h:inputText	×
Visu	al/Source Source Preview	

Figure 3.37. Visual/Source View

The view is designed in the form of a split pane with toggle buttons for quickly moving between Source, Visual or Source/Visual modes as shown on the figure above.

One more way to toggle between the various states of the split pane is using the shortcuts *Shift* + *F*6 for maximizing/restoring the Source part and *Shift* + *Alt* + *F*6 for maximizing/restoring the Visual part.



It should be pointed out that, no matter in what mode you are working, you get a full integration with Properties and Outline views:

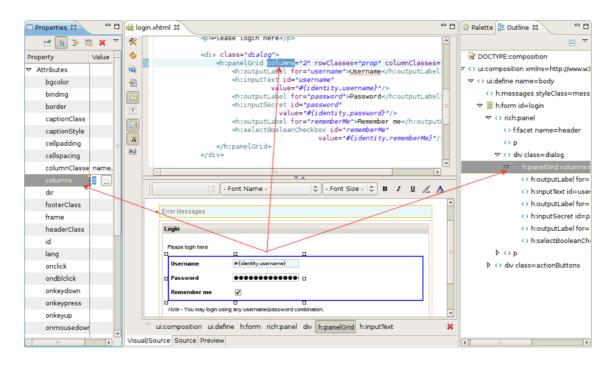


Figure 3.38. Integration with Properties and Outline Views

The Outline view displays a specific outline of a structured file that is currently open in the editor area, and lists its structural elements. Right-click on the elements will open additional options that allow adding other specific elements in necessary positions.

The Properties view shows property names and their values for a selected item. The values are editable, just select any and click on the button that appeared to choose a new value. Key combination Ctrl+Z will return the previous value, Ctrl+Y will return the new value again. The Properties view has additional options and can be set up to display categories and advanced properties.

It's also possible to use the <u>JBoss Tools Palette</u> to insert any tag from the list of tag libraries to the page you are editing with just a click or drag-and-drop.

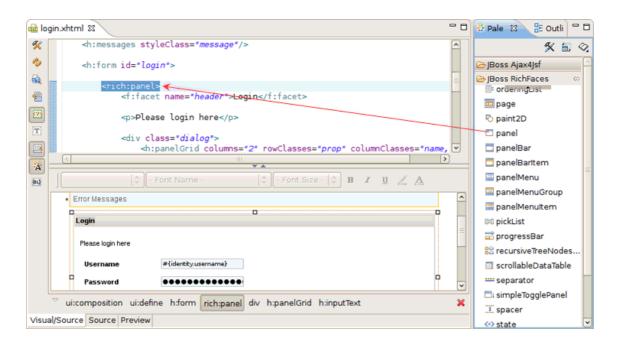


Figure 3.39. Inserting Tag From the Palette

You can insert a tag/component from the palette into either the Source or the Visual part by calling a context menu and selecting Insert around, Insert before, Insert after or Replace With, pointing to From Palette, picking the type of the tag and finally choosing the tag you want to insert.

The image below illustrates how you can insert a tag into the Source part.

gin.xhtml 🛙			
<	rich-nanel>	e Ctrl+7	facet>
	Revert File	c currz	:Tacet>
	Save	Ctrl+S	
	- Dave	carro	and password
	Sho <u>w</u> In	Shift+Alt+W >	
	Cu <u>t</u>	Ctrl+X	<pre>vClasses="prop" columnClasses="name,value"></pre>
	<u>С</u> ору	Ctrl+C	<pre>rname">Username</pre>
	Paste	Ctrl+V	ne" tity.username}"/>
<	Insert Around	>	From Palette > JBoss > Ajax4Jsf > <a4j:actionparam></a4j:actionparam>
	Insert Before	>	⇒ B I U JSF > RichFaces > <a4j:ajaxlistener></a4j:ajaxlistener>
	Insert After	>	Seam > <a4j:commandbutton></a4j:commandbutton>
#{projectName	Replace With	>	<a4j:commandlink></a4j:commandlink>
	Insert Into	>	<a4j:form></a4j:form>
 Error Mes 	sade out of star	e t	<a4j:htmlcommandlink></a4j:htmlcommandlink>
	ouick Fix	Ctrl+1	<a4j:include></a4j:include>
Login	Add to Snippets		<a4j:keepalive></a4j:keepalive>
Please k	Properties		<a4j:loadbundle></a4j:loadbundle>
			<a4j:loadscript></a4j:loadscript>
h:unna		>	<a4j:loadstyle></a4j:loadstyle>
User	open Selection	F3	<a4j:log></a4j:log>
Pass	^{vord} <u>R</u> un As	>	<a4j:mediaoutput></a4j:mediaoutput>
Reme	mbe Debug As	>	<a4j:outputpanel></a4j:outputpanel>
	Profile As	>	<a4j:page></a4j:page>
	Validate		<a4j:poll></a4j:poll>
ui:compositio	🔜 🧝 маке Беріоуарі	9	<a4j:portlet></a4j:portlet>
al/Source Sour	e I Team	>	<a4j:push></a4j:push>
	Compare With	>	<a4j:region></a4j:region>
	Replace With	>	<a4j:repeat></a4j:repeat>
	Preferences		<a4j:status> <a4j:support></a4j:support></a4j:status>

Figure 3.40. Inserting a tag into the Source part

And this is how a tag is inserted using a context menu in the Visual part.

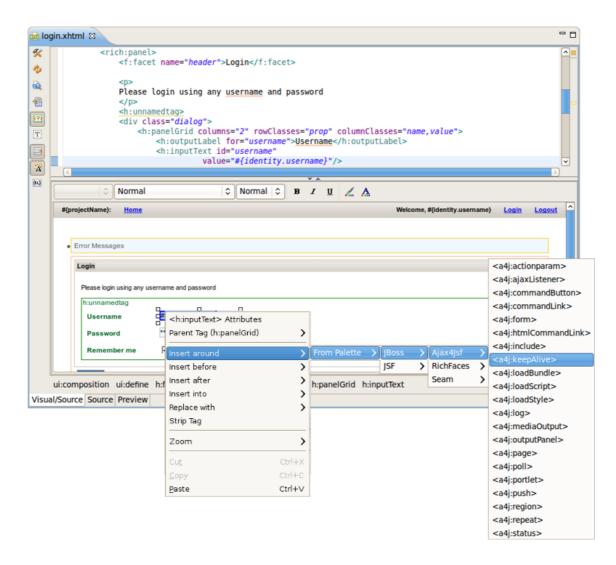


Figure 3.41. Inserting a tag into the Visual part

Visual Page Editor also displays custom tags correctly if they are configured properly. The picture below shows an example how custom tags "*pagination*" and "*echo*" will be displayed in VPE.

💼 in	ndex.html 🛛 🗖	8
** **	<pre><!DOCTYPE html PUBLIC *-//W3C//DTD XHTML 1.0 Transitional//EN* "http://www. <html <br="" xmlns="http://www.w3.org/1999/xhtml">xmlns:ui="http://java.sun.com/jsf/facelets" xmlns:h="http://java.sun.com/jsf/html" xmlns:f="http://java.sun.com/jsf/core" xmlns:cu="http://customTags/tags"></html></pre>	
	<pre> custom tags> <cu:paginator></cu:paginator> <cu:echo msg="Helle Custom Tags"></cu:echo> </pre>	
(IL)		
	Image: Second secon	
	<< < >>> Hello Custom Tags	
	Thtml body cu:paginator	ĸ
Visu	al/Source Source Preview	

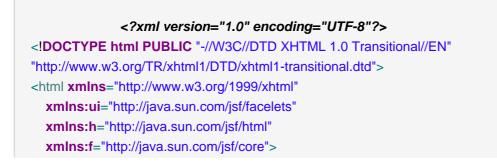
Figure 3.42. Custom Tags in the VPE

The listings of the custom tags implementations will help to clear how VPE works.

• echo.xhtml:

```
<ui:composition xmlns:ui="http://java.sun.com/jsf/facelets">
<span class="message">#{msg}</span>
</ui:composition>
```

• paginator.xhtml:



```
<ui:component>
<!-- h:inputHidden id="currentPage" replace, because if on page two fields,
two elements with equal id has been used, but should be used only one -->
  <h:panelGrid style="margin-right:auto;margin-left:auto;" columns="4">
    <h:commandButton value="&lt;&lt;" type="submit"
    onclick="document.getElementById('currentPage').value=0" >
    </h:commandButton>
    <h:commandButton value="&lt;" type="submit"
              onclick="document.getElementById('currentPage').value=#{user.currentPage-
user.rowsPerPage}">
    </h:commandButton>
    <h:commandButton value="&gt;" type="submit"
              onclick="document.getElementById('currentPage').value=#{user.currentPage
+user.rowsPerPage}">
    </h:commandButton>
    <h:commandButton value="&gt;&gt;" type="submit"
          onclick="document.getElementById('currentPage').value=#{user.numberOfItems -
user.rowsPerPage}">
    </h:commandButton>
  </h:panelGrid>
  <h:inputHidden id="currentPage" value=""/>
</ui:component>
</html>
```

If your custom tags aren't configured correctly your Visual mode will look like this:

📾 in	ndex.html 🛛 🧧 t	3
	<pre><cu:paginator></cu:paginator> <cu:echo msg="Helle Custom Tags"></cu:echo> </pre>	
(11)	○ - Font Name - ○ - Font Size - ○ B I II II	
	cu:paginator	1
	cu:echo	
	html body cu:paginator	¢
Visu	al/Source Source Preview	

Figure 3.43. Wrong configured Custom Tags in the VPE

3.2.1.1. Commenting out Code

VPE supports possibility to add comments in files you are working with (JSP, XHTML, etc.):

- HTML comments (<!-- -->) which are output to the client
- JSP comments (<%-- --%>) which are not output to the client as part of the JSP page output

3.2.1.2. Using Code Folding

Visual Page Editor lets you collapse (hide) and expand (show) sections of your code to make it easier to navigate and read.

Code folding can be enabled by right-clicking on the left margin on the Source part of Visual Page Editor, selecting Folding and checking the Enable Folding checkbox or using the *Ctrl* +*Numpad_Divide* shortcut.

When	the	code	folding	is	enabled	а	minus	sing	(
\ominus									

) will appear on the left margin of the editor next to each opening block tag.

Θ	<div class="dialog"></div>	
Θ	<h:panelgrid columnclasses="name,value" columns="2" rowclasses="prop"></h:panelgrid>	
	<h:outputlabel for="username">Username</h:outputlabel>	
Θ	<h:inputtext <="" id="username" td=""><td></td></h:inputtext>	
	value="#{identity.username}"/>	
	<h:outputlabel for="password">Password</h:outputlabel>	
Θ	<h:inputsecret <="" id="password" td=""><td></td></h:inputsecret>	
	value="#{identity.password}"/>	
	<h:outputlabel for="rememberMe">Remember me</h:outputlabel>	
0	<h:selectbooleancheckbox <="" id="rememberMe" td=""><td></td></h:selectbooleancheckbox>	
	value="#{identity.rememberMe}"/>	

Figure 3.44. Enabled Code Folding

Click the minus sign to collapse a block tag.

When the minus sing is clicked on the appropriate tag collapses and a plus sing (æ) displayed on the left margin as well as a gray rectangle two dots (is Π

) appears after opening and closing tags.



Figure 3.45. Collapsed Code

3.2.1.3. JSP Syntax Validation

When working in JBoss Tools JSP editor you are constantly provided with feedback and contextual error checking as you type.

3.2.1.4. Support for custom TagLibs and Taglib versions

VPE templates support custom tag libs, e.g. Seam Mail facelet taglib, RichFaces taglibs or any other created by you.

VPE templates also provide a support for various versions of tag libraries. It means that the VPE takes control over those components which have different parameters or preview according to the framework version (like seam 1.2 and seam 2.0, or JSF 1.1 and JSF 1.2).

For example, <s:decorate> element in seam has different parameters in versions 1.2 and 2.0 as well as <h:outputLink> JSF element has different preview in versions 1.1 and 1.2.

3.2.2. Pages Styling

Most web pages use the cascading style sheets (CSS) to control the way they look. With Visual Page Editor you can easily stylise your pages. In this section we are going to introduce you to a powerful mechanism that VPE provides for a complete control over pages styling. More helpful information on wok with CSS files can be found in <u>CSS Perspective chapter</u>

3.2.2.1. Inline Style Editing

In the Visual part of the VPE there is a graphical toolbar, use it to add inline styling to JSF and Struts tags on your page. The toolbar can be hidden with the help of the special button (\Im

on the VPE toolbar.

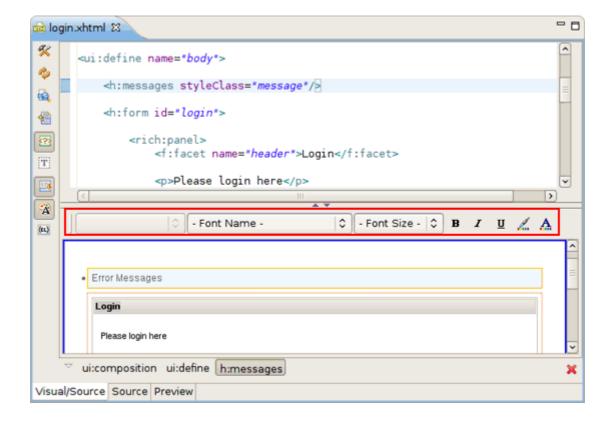


Figure 3.46. Text Formatting

For editing inline styles for DOM elements VPE provides the CSS Dialog. It can be called from *style* line in the Properties view for a currently selected element.

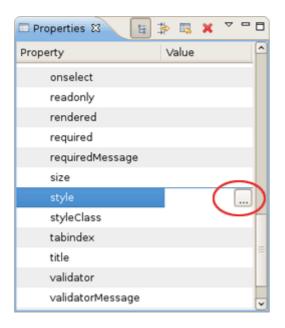


Figure 3.47. Call the CSS Dialog

CSS Style Dialog has several tabs where css properties for text, background, borders and others can be specified. A simple preview which is generated at the top of the CSS Style Dialog allows you to see the changes before you apply them.

		cs	S Style		X
CSS Style					
Double click to	edit prev	view	To save char	nges press En	ter
button.	curt pres		. ro sure enu	iges press En	
Text/Font Backgr	round Bo	xes	Property Sheet	Edited propert	ies
Font Family:					
Color:	FireBrick			~	
Font Size:	18			✓ px	•
				- PA	
Font Style:					~
Font Weight:					~
Text Decoration:					~
Text Align:					~
?			Cancel	ОК	

Figure 3.48. CSS Style Dialog

3.2.2.2. External Stylesheets

The pages you are working with in VPE can use external stylesheets. VPE allows you to create new style classes in existing stylesheets and/or edit them as well. For these purposes Edit Style Class Dialog is provided.

Select the element for which you need to create or edit style class and press button next to *styleClass* field in Properties view.

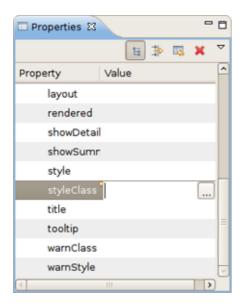


Figure 3.49. Calling the Edit Style Class Dialog

It'll pick up the Edit Style Class Dialog which looks like on the figure below:

9	Edit StyleClass	×
<h:messages></h:messages>		I
🕨 📚 Managed Beans		
🗁 Resource Bundles		
👂 🗞 Seam Variables		
JSF Variables		
	Cancel	Ok

Figure 3.50. Edit Style Class Dialog

Choose a style class from the variants provided and click on the Ok button to apply the changes.

To open a CSS dialog based on the active CSS file click on

in the top panel or use hot-keys (Shift+Ctrl+C).

To create a new CSS class for the file click on the Add CSS Class button, write its name in the field appeared and click on the Ok button:

۲	Enter New CSS Class Name	×
Enter New CSS	Class Name	
CSS Class Nam	ne is not valid	
	Cancel	ОК

Figure 3.51. Add CSS Class

Then you can configure style settings switching between the tabs: *Text/Font, Background, Boxes, Property Sheet.* The list of already existing classes with names beginning with the symbols printed will be displayed on standard "Ctrl+Space" key combination. To add existing styling to the chosen element just point to the necessary one. Each time you select any class it is displayed in the Preview tab. Click on the *Apply* button will apply the changes without closing the window.

9	CSS Class	×
CSS Class		
	.body .columnHeader:hover	
Double click to	.error	
<	.errors	
	.errors input	
CSS file:	.errors textarea .footer	e.css
Style class:	message	Add CSS Class
Style class.	name	Add C35 class
Text/Font E		perties Preview
background	.rich-stglpanel-body	- 13
	.rich-table	
	tableControl	
for	.tableControl a	✓ px ≎
	.tableControl,.actionButtons	
margin-b	.value a:active,a:link,a:visited	► px 🗘
marc	a:hover	✓ px ≎
	body	
pa	body(2)	px 🗘
	h1	
	img.errors	Apply Clear
	input,textarea	
0	input[type='submit'],input[type='button']	
?	Cancel	ОК

Figure 3.52. Style Class Selection

The *Edited properties* tab gives a preview of the properties which are set for the existing style class. You can easily modify them with the help of this wizard.

9		CSS Class		×
CSS Class				
Double click to edit previ	iew. To save ch	anges press Enter butto	n.	
<				>
CSS file: /Seam	nWebProject	/WebContent/style	esheet/theme.c	ss
Style class: .mess	age		\$	Add CSS Class
Text/Font Backgro	ound Boxes	Property Sheet	Edited propert	ies Preview
background-color				
	1px solid #	FFCC00		
font-size	12			✓ px ≎
margin-bottom	5			▶ px 🗘
margin-top	5			✓ px ≎
padding	5			px 🗘
				Apply Clear
(?)			Cancel	ок
J			cancer	

Figure 3.53. Edited Properties

If the style class isn't chosen, the tab doesn't show any properties.

9			CSS Class			×
CSS Class						
Double clie	ck to edit prev	iew. To	save changes p	ess Enter bu	tton.	
						_
CSS file	:					
Style class	:			0	Add CSS Cla	ss
Text/Font	Background	Boxes	Property Sheet	Edited prop	erties Previe	w
	Properties					
					Apply Clea	ar
			_			_
(?)			(Cancel	ОК	

Figure 3.54. Edited Properties when the style class isn't chosen

The *Preview tab* is for observing the content of the chosen CSS file. This tab is hidden if no CSS file is chosen.

9			CSS Class			×
CSS Class						
Double click to	edit preview. To	save char	nges press Enter buttor	1.		
<						>
CSS file:	/SeamWebF	Project∧	WebContent/style	sheet/theme.cs	s	
Style class:	.message			0	Add CSS (Class
Text/Font	Background	Boxes	Property Sheet	Edited propert	ies Preview	~
.message borde	{ r: 1px sol	id #FF	CC06:			
paddi	ng: <i>5px</i> ;					
margi	n-top: <i>5px</i> n-bottom:	5px;				
	round-colo size: <i>12px</i>		NF8FF;			
}						
.name {						
	cal-align: weight: bo					
width	115px;	,				
	: left; na: 50x:					~
<			III			
					Apply C	lear
0			_			

Figure 3.55. Preview Tab

At the top of the CSS Class Dialog you can see a preview box which visualizes the result. To edit the preview you should double click in the box. To leave the focus, use Ctrl + Tab.

19	CSS Class	×
CSS Class		
Double click to edit p	preview. To save changes pres	
<	III	>
CSS file: /Sean	webProject/WebContent/stylesheet/theme.cs	s
Style class: .mess	sage 🔷 🗘	Add CSS Class
Text/Eant Backar	ound Boxes Property Sheet Edited propertie	es Draview
background-color	(
border	1px solid #FFCC00	
font-size	12	∽ рх ≎
margin-bottom	5	✓ px 0
margin-top	5	✓ px ≎
padding	5	px 🗘
		Apply Clear
?	Cancel	ОК

Figure 3.56. Editing the Preview

The dialog for creating a new CSS class, which is called from *New* > *Other...* > *JBoss Tools Web* > *CSS Class,* looks this way:

9		CSS Sty	le Class Edi	tor	×
CSS Class					
Create New	CSS Class				
CSS File*					 Browse
CSS Class*]
?		Back	<u>N</u> ext >	Cancel	inish
U		Zack	Taevr >	Cancer	

Figure 3.57. New CSS Class Dialog

Click on the Browse button to open a dialog to select the CSS file to create a CSS class for:

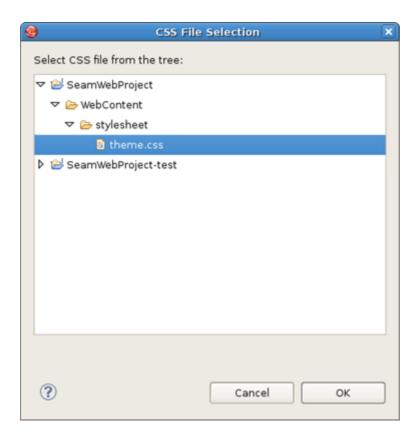


Figure 3.58. CSS File Selection

Choose the necessary CSS file and click on the Ok button.

3.2.3. Templating

The VPE also makes it possible to create templates for unknown tags.

To call the Template dialog for a tag, right-click on it in Visual mode and select *Setup Template for <tag name>* option.

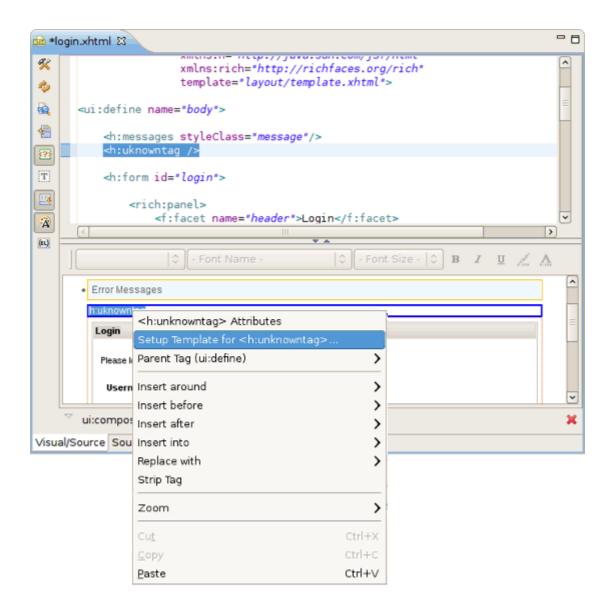


Figure 3.59. Calling Template Dialog

Here is what the Template dialog looks like.

8		Template
Tag A	ttributes	
URI: Tag N	http://java lame: h:uknownt	.sun.com/jsf/html ag
	Tag for Display	div
	Children	X
	Value	{name()}
	Style	
0		OK Cancel

Figure 3.60. Template Dialog

Tag for Display field in the Template dialog requires specifying a type of tag. It can be SPAN, DIV, TABLE or any other html element. Check *Children*, if you want to mark a tag as a child element.

The Value field is for setting a tag value.

As for the *Style* field, you can fill it out manually or make use of the button next to the field to bring the <u>CSS Dialog</u> [42] for editing styles.

You can observe all defined templates in the <u>VPE Preferences</u> on the Templates tab which you can quickly access by pressing <u>Preferences button</u>.

8	Preference	s (Filtered)			
type filter text	Visual Page Editor				\$~ \$~ ~
▽ JBoss Tools	General Templates				
✓ Web ✓ Editors	URI	Tag for Display	Tag Name	Children	Edit
Visual Page Edi	http://java.sun.com/jsf/html		h:unknowntag	yes	
visual Page Edi				no	Remove
				no	
				no	
< III >		111			
0				ок	Cancel

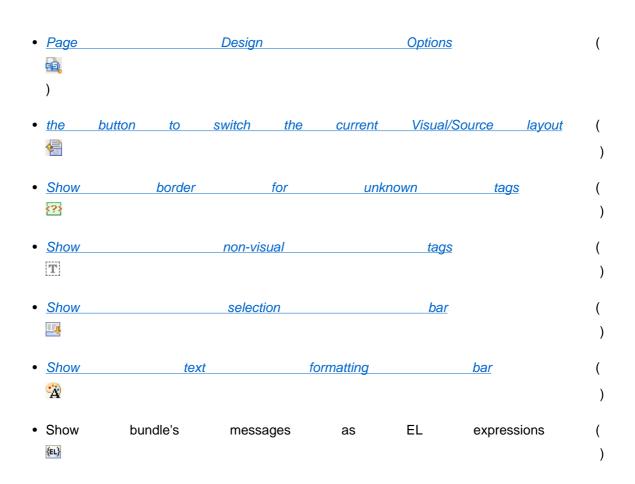
Figure 3.61. Templates Tab of the VPE Preferences Page

Here it's possible to edit or remove any listed in the table template.

3.2.4. VPE Toolbar

The Visual Page Editor toolbar includes the next buttons:

```
Preferences
%
)
Refresh
%
)
```



nd log	gin.xhtml 🕴 🧧	° 8
* * * *	<pre><!DOCTYPE composition PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</th> <th></th></pre>	
	↓ - Font Name - ↓ - Font Size - ↓ B I U	»
<u>(IL)</u>	#{projectName}: <u>Home</u> Welcome, #{identity.username}: <u>Login Logout</u>	
	• Error Messages	>
	~	×
Visua	al/Source Source Preview	

Figure 3.62. Buttons on the VPE Toolbar

3.2.4.1. Preferences

The Preferences button (

7X

) provides a quick access to the Visual Page Editor preferences.

()	Preferences (Filtered)
type filter text	Visual Page Editor 🔅 -> -> ->
♥ JBoss Tools ♥ Web ♥ Editors Visual Page Editor	General Templates Visual appearance Show border for unknown tags Show non-visual tags Show selection tag bar Show text formatting bar Show resource bundles usage as EL expressions Confirmation and details Ask for tag attributes during tag insert Ask for confirmation when closing Selection Bar Default tab, splitting and editor's weights to start VPE with Select the default active editor's tab Visual/Source Visual/Source editors splitting Vertical splitting with Source Editor on the top Size of the Visual Editor pane (0-100%) S0%
	Restore <u>D</u> efaults <u>Apply</u>
?	Cancel OK

Figure 3.63. Visual Page Editor Preferences Window

This page provides a number of options associated with the editor representation. The more detailed description on each one you can find in the "JBoss Tools Preferences" chapter under Visual Page Editor.

3.2.4.2. Refresh

Clicking	on	the	Refresh	button	(
r.					
) refreshes the	displayed inf	ormation.			

3.2.4.3. Page Design Options

The	Page	Design	Options	button	(
à					

) leads to a window which helps you specify necessary references of the resources. It is represented by a window with 4 tabs. The first one, *Actual Run-Time folders,* is used to replace absolute and relative path values when generating a preview:

۲	Page Design Options	×
Here you	isign Options I can configure Visual Page Editor arguments, which will be used for of a greview	
6	n-Time Folders Included css files Included tag libs Substituted El expressions	
Absolute	Folder	7
Path	Browse	
Scope	Page 🗸	
-Relative F	older	
Path	Browse	
Scope	Page 🗸	
L	Ok Cancel]

Figure 3.64. Page Design Options: Actual Run-Time folders

The second tab, *Included CSS files*, is used to add CSS files to be linked by Visual Page Editor when generating a preview:

😫 Page Design Options 🛛 🗙					
	ign Options les will be link	ed by ∨isual Page	Editor when gener	ating a preview	0
ctual Run-1	Time Folders	Included css files	Included tag libs	Substituted El e	xpressions
Scope	CSS File	Path			Add
					Edit
					Remove
					4
				Ok	Cancel

Figure 3.65. Page Design Options: Included CSS files

The third one, *Included tag libs*, can be used to add Taglibs that can be used by the editor for getting appropriate templates to generate a preview:

9		Page De	sign Options		×
This Taglibs	ign Options s will be used ting a preview	by Visual Page Edi ∕, if this Taglibs doe	tor for getting app son't included on p	ropriate templa age	te 🛞
Actual Run-	Time Folders	Included css files	Included tag libs	Substituted El	expressions
Scope	URI			Prefi×	Add
					Edit Remove
				Ok	Cancel

Figure 3.66. Page Design Options: Included tag libs

And finally, the *Substituted El expressions* tab is used to add El expressions that will be substituted by the editor when generating a preview:

🧐 Page Design Options 🛛 🗙					
-	ign Options pressions will	be substituted by \	visual Page Editor	when generating	a 🛞
Actual Run-1	Time Folders	Included css files	Included tag libs	Substituted El e	xpressions
Scope	El E×pre	ssion		Value	Add
					Edit
					Remove
[
				Ok	Cancel

Figure 3.67. Page Design Options: Substituted El expressions

The first two tabs of the window let you define actual runtime folders. The example below will help you understand how this can be done.

Suppose you have the following project structure:

WebContent/ pages/ img/ a.gif header.jsp main.jsp

The content of the *header.jsp* is:

My Header

and *main.jsp* content is:

<jsp:include page="pages/header.jsp" />

When you open *main.jsp* in Visual Page Editor, it will not be able to resolve the image from the header, however, it will work fine in runtime. To fix this in design time, click the *Page Design Options* button and set *Actual Run-Time Relative Folder* to 'projectName > WebContent > pages' and you will see the image appeared.

Let' consider an example for other tabs. For instance, the definition of your CSS on the page is the next:

k rel="stylesheet" type="text/css" href="#{facesContext.externalContext.requestContextPath}/style.css"/>

This will work fine in runtime, but the Visual Page Editor doesn't know what *requestContextPath* in design time is. In order to see the necessary styles applied in design time your should add a path to your stylesheet in the CSS File Path section.

The next URI section lets you add URI taglibs so that the editor knows where to find the tag libraries.

And the last Substituted EL expressions section is provided to specify the values for specific EL variables. It can be useful for a preview generation.

As an example look at the figure below:

📾 he	ello.jsp 🕴	- 8
	<pre><html></html></pre>	×
Visu	✓ html body f:view h3 h:outputText al/Source Source Preview	×

Figure 3.68. EL Expression

Here bath in Source and Visual modes you see the EL expression #{user.name}. When you switch to Preview view, you'll also see this expression. Now press *Page Design Options* button and set the value for the *"user.name"* as *World*.

)	Add EL Reference			
Add EL R Add El var	eference iable, which will be substituted in a visual part for generating a preview			
El Name*	user.name			
	Scope			
	O Page: Only This Page			
 Folder: Any Page at the Same Folder 				
	 Project: Any Page at the Same Project 			
√alue	World			
	Cancel <u>F</u> inish			

Figure 3.69. Setting the Value for the EL Expression

As a result in Visual mode and Preview view the word *World* is displayed.

🗟 he	ello.jsp 🕴	- 0
	<pre>chtml></pre>	×
Visua	image: wide state image: wide state image: wide state image: wide state image: wide state image: wide state	×

Figure 3.70. The EL Expression Value

3.2.4.4. Visual/Source Editors splitting buttons

The *Visual/Source Editors splitting buttons* provide the possibility to choose one of the four possible layouts for the Visual/Source Editor.

The available layouts and corresponding buttons are as follows:

 Vertical top(Source			on)
• Vertical	Visual	on		top	()
Horizontal	Source	to	the	left	()
Horizontal	Visual	to	the	left	()

**	</th <th></th> <th>tion xml xml xml xml xml xml xml</th> <th><pre>on PUBLIC " "http:// .ns="http:// .ns:s="http: .ns:ui="http: .ns:f="http: .ns:h="http: .ns:rich="http: .ns:rich="http: .ns:rich="layer"</pre></th> <th>/www.w3. /www.w3. ://jboss o://java ://java. ://java. ttp://ri put/temp</th> <th>org/TR/xl org/1999 .com/pro .sun.com/ sun.com/ sun.com/ chfaces.</th> <th>html1/DTD/ /xhtml" ducts/seam /jsf/facel jsf/core" jsf/html" org/rich"</th> <th>xhtml1 /tagli</th> <th>-tran</th> <th></th>		tion xml xml xml xml xml xml xml	<pre>on PUBLIC " "http:// .ns="http:// .ns:s="http: .ns:ui="http: .ns:f="http: .ns:h="http: .ns:rich="http: .ns:rich="http: .ns:rich="layer"</pre>	/www.w3. /www.w3. ://jboss o://java ://java. ://java. ttp://ri put/temp	org/TR/xl org/1999 .com/pro .sun.com/ sun.com/ sun.com/ chfaces.	html1/DTD/ /xhtml" ducts/seam /jsf/facel jsf/core" jsf/html" org/rich"	xhtml1 /tagli	-tran	
<u>-</u>	5									
Â			0 -	Font Name -		¢]- (Font Size -	ЭВ	I I	ı »
	,	rojectilame): Error Messag Login	<u>Home</u> ges		Welcon	ne, #{identity	/.username)!	Login	Log	
~	7									3
(isual/	Sou	rce Source	Draviaw							

Figure 3.71. Visual Page Editor Before Layout Changing

Note, at the current view there is only *one* button, that proposes the possibility to change it in order the Source and the View are moved *in a clockwise direction*.

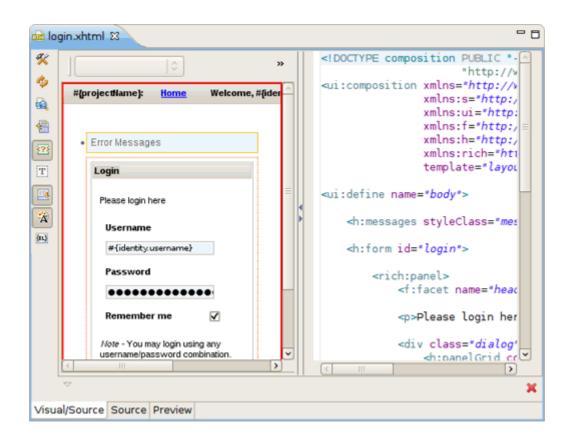


Figure 3.72. Visual Page Editor After Layout Changing

3.2.4.5. Show Border for Unknown Tags

The option is a self explanatory, i. e. if you want unknown tags to be wrapped in a border in the VPE visual part, just press the *Show border for unknown tags* button (

on the toolbar.

3.2.4.6. Show Non-visual Tags

Visual Page Editor provides the option for displaying non-visual tags in Visual mode of the editor. To enable it select the *Show non-visual tags* button (
T

on the VPE toolbar.

On the figure you can see non-visual elements with gray dashed borders.

gin.xhtml 🖾				
	\$	 ↓ ○ - Font Size - ○ B 	ΙŪ	/. A
#{projectHame}: H	ome	Welcome, #{identity.username}!	Login	Logout
ui:define				
 Error Messages 				
Login				
Please login here				
Username	#{identity.username}			
Password	•••••			
Remember m	e 🔽			
Note - You may k	ogin using any username/password co	embination.		
Login				
ui:insert				
~				
al/Source Source Pre	view			

Figure 3.73. Non-visual Tag in the VPE

You	can	also	switch	on	this	option	in	the	VPE
prefere	nces,	having	clicked	on	the	Prefer	ences		button
(🌠).

3.2.4.7. Show Selection Bar

You can find useful one more functionality provided by VPE. At the bottom of the Visual/Source view there is a Selection Tag Bar. It's updated automatically allowing to see tags tree for a current component selected in Visual or Source mode, also it allows to select tags back and forward.

na lo	igin.xhtml 🕴	- 8
×	<pre><ui:define name="body"></ui:define></pre>	^
🤣 🗟	<h:messages styleclass="message"></h:messages>	
	<h:form id="login"></h:form>	
22	<pre><rich:panel></rich:panel></pre>	
T	<f:facet name="header">Login</f:facet>	
	Please login here	9
(IL)	↓ - Font Name - ↓ - Font Size - ↓ B I U	»
	Login	^
	Please login here	_
	Username #{identity:username}	
	Password •••••••••	
	Remember me 🗹	~
	[™] ui:composition ui:define h:form rich:panel	×
Visu	al/Source Source Preview	

Figure 3.74. Selection Tag Bar

If you want to hide the Selection Tag Bar, use the Show Selection Bar button (
on the VPE toolbar.

3.2.5. Page Preview

VPE comes with design-time preview feature which is available for:

- Struts Pages
- JSF Pages
- Seam Pages

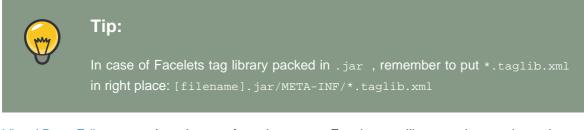
Preview view is read-only, it shows how the page will look like in a browser.

📾 login.xhtml 🖾				- 8
#{projectName}: Home	1	Welcome, #{identity.username}!	Login	Logout
Error Messages				
Login				
Please login using any	v username and password			
Username	#{identity.username}			
Password	*****			
Remember me	~			
Logín	Powered by Seam. Ger	erated by seam-gen.		
Visual/Source Source	Preview			

Figure 3.75. Preview View

3.2.6. Support for Custom Facelets Components

Visual Page Editor (starting from 3.0.0.M3 version of JBoss Tools) supports custom Facelets tag libraries both declared in the web.xml file (for details, see <u>Creating a component</u>) and packed into the JAR file.



Visual Page Editor recognizes the tags from the custom Facelets tag library and correctly renders them both in source and visual view of the editor.

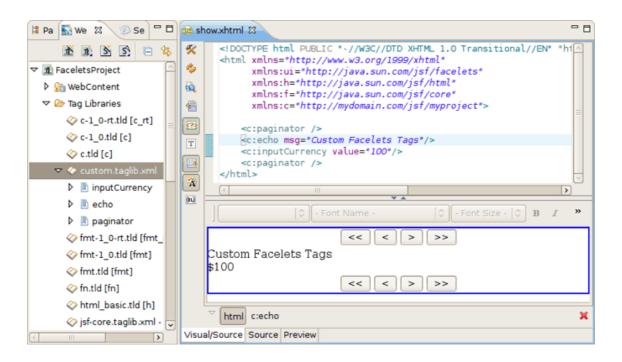


Figure 3.76. Custom Facelets Tags in the VPE

While editing an XHTML file that uses a custom Facelets components you can always make use of the following editor's features:

- <u>Content Assist for Custom Facelets Components</u>
- OpenOn for Custom Facelets Components

3.2.6.1. Content Assist for Custom Facelets Components

Call the content assist as usual by using *Ctrl+Space* when typing a tag. As proposals you should see custom Facelets tags defined in your Facelets tag library.

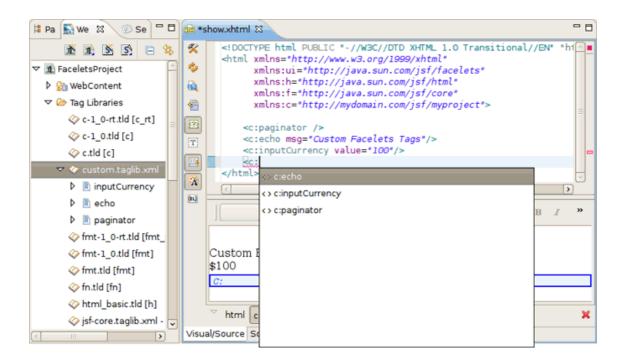


Figure 3.77. Content Assist for Custom Facelets Tags

3.2.6.2. OpenOn for Custom Facelets Components

While developing using Facelets you can make use of:

- <u>OpenOn in XHTML Files That Use Custom Facelets Components</u>
- <u>OpenOn in Custom Facelets Tag File (*.taglib.xml</u>)

3.2.6.2.1. OpenOn in XHTML Files That Use Custom Facelets Components

OpenOn functionality in XHTML files is available in two views of the Visual Page Editor:

1. Source view

Ctrl+Click on the namespace will open the Facelets tag file in a separate window.

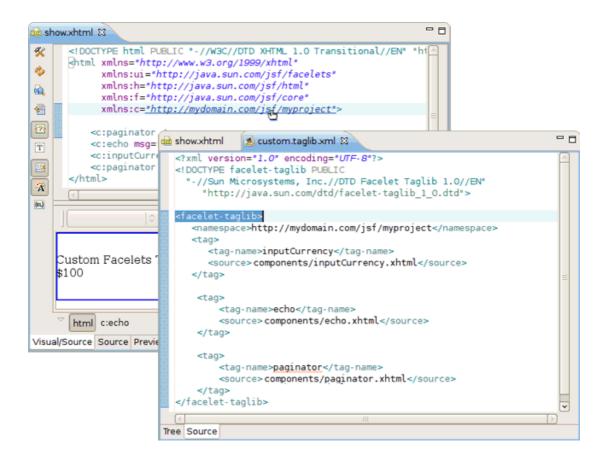


Figure 3.78. Opening a Custom Facelets Tag File

Ctrl+Click on any custom Facelets tag declared on the page will do the same. The selected tag will be highlighted in the opened file.

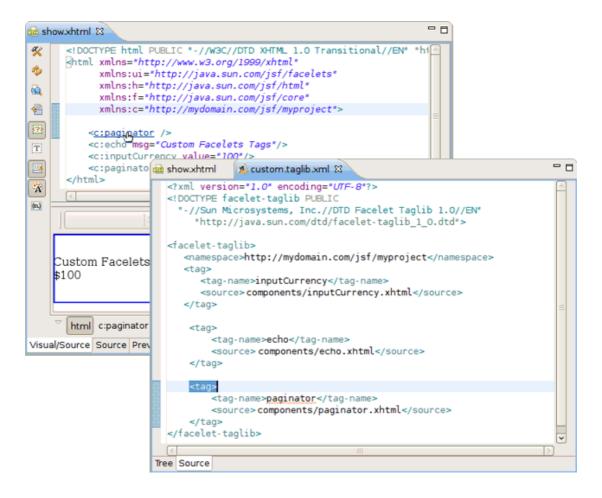


Figure 3.79. Opening a Custom Facelets Tag File

2. Visual view

In the visual view of the VPE, double-click a custom component and the Facelets tag file (*.taglib.xml) where it is declared will be opened.

3.2.6.2.2. OpenOn in Custom Facelets Tag File (*.taglib.xml)

Ctrl+Click on the path to source of the Facelets tag will open the component in its own editor.

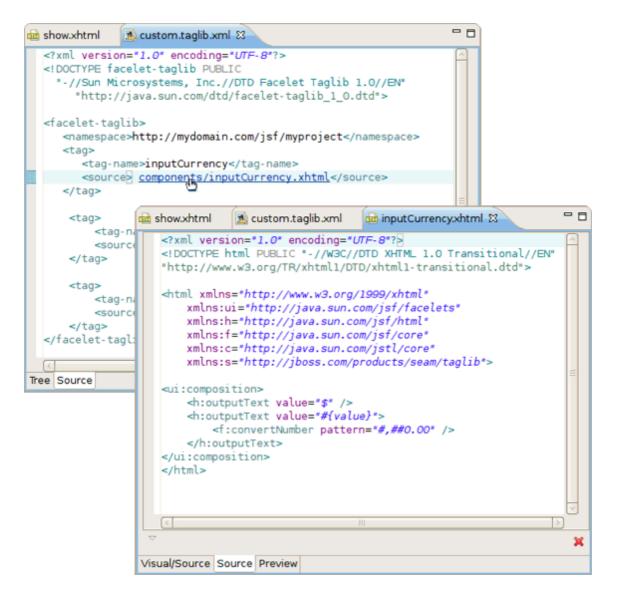


Figure 3.80. Opening a Custom Facelets Component

3.2.7. Setup notes for Linux

Linux users who are going to use earlier then JBoss Tools 3.1.0.M4 versions may need to do the following to get the Visual Page Editor to work correctly on their machines.

The Visual Page Editor requires the library libstdc++.so.5. This library is contained in the compatlibstdc++-33.i386 package.



• To install this package on Fedora Core or Red Hat Enterprise Linux run the following command:

yum install compat-libstdc++-33.i386

• On any other rpm based distributions download libstdc++.so.5 and run the following command:

rpm -Uvh compat-libstdc++-33.i386

• On Debian based distributives run the following command:

apt-get install compat-libstdc++-33.i386

In case you have the library installed and you still have issue with starting the visual page editor then close all browser views/editors and leave one visual page editor open and restart eclipse. This should force a load of the right XULRunner viewer.

lf it doesn't help Linux Eclipse and you use Fedora Core and Version: 3.4.1.the issue can be produced because libswt-xulrunnergtk-3449.so file doesn't present in eclipse-swt-3.4.1-5.fc10.x86_64.rpm/eclipse/plugins/ org.eclipse.swt.gtk.linux.x86_64_3.4.1.v3449c.jar.To add this file to eclipse you should:

- Decompress eclipse/plugins/org.eclipse.swt.gtk.linux.x86_3.4.1.v3449c.jar form eclipse-SDK-3.4.1-linux-gtk-x86_64.tar.gz
- Copy libswt-xulrunner-gtk-3449.so file to your Fedora Eclipse location.
- Open the file eclipse.ini,which can be found in your Fedora Eclipse location and add the following line:

-Dswt.library.path=/usr/lib/eclipse

,where /usr/lib/eclipse is the path to your eclipse folder.

3.3. More Editors

Besides Visual Page Editor JBDS is supplied with a huge range of various editors for different file types: properties, TLD, web.xml, tiles, and so on.

3.3.1. Graphical Properties Editor

The Properties editor allows you to work in two different modes and also supports unicode characters.

To create a new properties file, in the Package Explorer view, select *New > Properties File* from the right-click context menu on the folder where you want to create the file.

Ne <u>w</u>	•	🛣 JSF Project
Go Into		🛐 Struts Project
Open in <u>N</u> ew Window		Project
Ope <u>n</u> Type Hierarchy	F4	🖶 Package
Sho <u>w</u> In	Shift+Alt+W ▶	🞯 Class
<u>[]</u> еору	Ctrl+C	Interface Source Folder
 Copy Qualified Name Paste Delete 	Ctrl+V Delete	Given Folder
Build Path	,	Struts Config Faces Config
Source	Shift+Alt+S ▸	🖹 Tiles File
Refactor	Shift+Alt+T 🔸	🔆 Validation File
import		🔆 TLD File
🖾 Export		📸 JSP File
		de XHTML File
🔘 Run XDoclet	Shift+Ctrl+F1	🏙 HTML File
🖑 Re <u>f</u> resh	F5	📸 CSS File
Clo <u>s</u> e Project		🖄 JS File
Close Unrelated Projects		📸 Properties File
Assign Working Sets		📑 E <u>x</u> ample
<u>R</u> un As <u>D</u> ebug As	•	📑 <u>O</u> ther
Profile As	•	

Figure 3.81. Selecting Properties File

You can edit the file using a table-oriented "Properties" viewer:

🖬 messages.properties 🕅		- 0
messages.properties		
▶ Filter		
name	value	Add
header	Hello Demo Application	
prompt_message	Name:	Edit
hello_message	Hello	Delete
		Цр
		Do <u>w</u> n
Properties Source		Y

Figure 3.82. "Properties" Viewer

You can also use a Source viewer for editing the file:

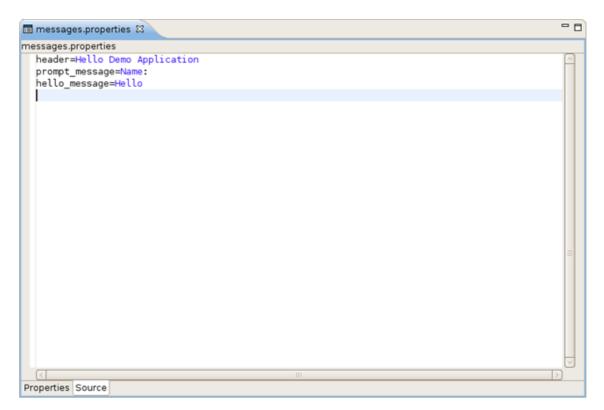


Figure 3.83. Source Viewer

3.3.2. Graphical TLD Editor

The TLD editor comes with same features you will find in all other JBoss Developer Studio editors:

- Graphical and source edit modes
- Validation and error checking

3.3.2.1. Tree view

>html_basic.tld ន		- E
JBoss Tools Tag Library Edi	tor	
w html_basic	▼ Tag Library	A
🗢 🧇 html_basic.tld	Tlibversion:	1.2
Listeners	Shortname:	h
Validator	URI:	http://java.sun.com/jsf/html
CommandButton CommandLink		
dataTable	Display-Name:	
🕨 🖹 form	Small-Icon:	
👂 🔊 graphicimage	Large-lcon:	
👂 🖹 inputHidden	Description:	his tag library contains JavaServer Faces
InputSecret		UIComponent + HTML RenderKit Renc
InputText	▼ Defined	
InputTextarea		
Imessage	name	tagclass Add
Imessages		c com.sun.faces.taglib.html_b
I outputFormat	commandLink	com.sun.faces.taglib.html_b
ree Source		

Figure 3.84. Tree View

3.3.2.2. Source view

You can easily switch from Tree to Source by selecting the Source tab at the bottom of the editor.



Figure 3.85. Source View

You can easily add a new tag:

⊘ MyTLD.tid ⊠		- 8
JBoss Tools Tag Li	prary Editor	
▼ MyTLD	▼ Tag Library	A
V 🔷 MyTLD.tld	Rename 1.1	=
Validator Choose Out Out Oin forEach Oin param Oin set Oin when	New Validator Properties Listener Displa Tag Tag File Small-icon: Large-Icon:	
Functions	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	ve
Tree Source	Initiating of graphene adjust standard adjectminion. Anna of ta	

Figure 3.86. Adding a New TLD Tag

You can also easily add a new attribute to an existing tag:

JBoss Tools	Tag Library Edi	tor		
▼ MyTLD		▼ Tag		A
 ✓ <> MyTLD.ti I Listen ✓ Valida I choos I out I out 	ers ator	Name: <u>Tagclass:</u> <u>Teiclass:</u> Bodycontent:	if org.apache.taglibs.standard.tag.common.xml.lfTd JSP	Browse Browse
▷ 🛃 forE ▷ 🖹 para ▷ 🛃 set	Add Variable Add Attribute Add Attribute As Fra Copy	agment Ctrl + (Ctrl +		
	Collete Properties Verify	Delet	required	> > A >

Figure 3.87. Adding a New Attribute to TLD tag

Content assist is available when editing the file using the Source viewer:

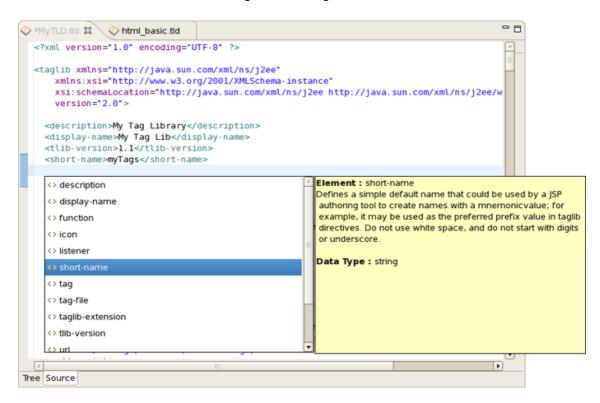


Figure 3.88. TLD Content Assist

In the Source viewer, if at any point a tag is incorrect or incomplete, an error will be indicated next to the line and also in the Problems view below.



Figure 3.89. Error Reporting

3.3.3. Graphical Web Application File (web.xml) Editor

The deployment descriptor *web.xml* file is intended for describing the servlets, container-managed security constraints and various deployment properties specific for your Web Application.

To edit the deployment descriptor JBoss Developer Studio provides its own web.xml editor that comes with the same features you will find in all other JBDS editors:

- Graphical and source edit modes
- Validation and error checking

3.3.3.1. Tree View

Switch to the Tree view if you want to edit *web.xml* in a graphical mode. All elements that *web.xml* could include are located in the left area of the editor in a tree format. Click a node on the left to display and edit its properties that will appear in the right-hand area.

web	- Serviet		
	• Servier		
▼ 👜 web.xml	Servlet-Name:	Faces Servlet	
Context Params	Servlet-Class:	javax.faces.webapp.F	aces Browse
🦓 Filters	Load-on-Startup:	1	
Listeners	·	-	
	▼ Init Params		
Faces Servlet: Javax.faces. Faces Servlet:*.jsf	param-name	param-value	<u>A</u> dd
session-config			Remove.
la Mime Mappings			Edit
welcome-file-list			Eart
a Error Pages			Up
/ JSP Config			Down
Security Constraints	- Security Roles	5	
Jogin-config	- Security Hole.		
Security Roles	role-name	role-link	<u>A</u> dd
a Env Entries			<u>R</u> emove.
🔄 EJB			Edit
襑 Services			
😂 Resources			Up
襑 Message Destinations			Down
🖉 locale-encoding-mapping-list	- Advanced		
Iocale-encoding-mapping-list	Advanced Small-Icon:		

Figure 3.90. Tree View for editing web.xml in a graphical mode

You can add any new elements right in the Tree viewer:

⊘ MyTLD.tld 🔤 web.xml 🛛		- E				
Web XML Editor						
▼ web	- Web Descriptor 2.5					
🔻 📠 web.xml	Manag	wah				
Context F New	Þ	Context Param				
Rename		Filter Filter Mapping				
👂 🔄 Listeners 🗒 Change Timesta	000	🎸 Listener				
	intp	Servlet				
Faces Copy	Ctrl + C	Servlet Mapping				
Saces & Cut	Ctrl + X	Mime Mapping				
😭 session-c	Ctrl + V	Error Page				
Aime Mai Properties		Security Constraint				
a) welcome-file-list		Security Role				
🔄 Error Pages		S Env Entry				
🖉 JSP Config		SEJb Ref				
a Security Constraints		🕉 Ejb Local Ref				
🧈 login-config	* Advanced	Image: Service Ref Image: Service Ref Image: Service Ref Image: Service Ref				
😂 Security Roles		N December Def				
a Env Entries	Small-Icon:	Message Destination Ref				
ka EjB	Large-lcon:					
a Services	Distributable					
a Resources	Distributable					
a Message Destinations	Metadata-Co	Complete:				
🖋 locale-encoding-mapping-list	Encoding:					
(III)						
Tree Source						

Figure 3.91. Adding New Elements in Web XML Editor

3.3.3.2. Source View

Switch to the Source viewer to edit the web.xml file by hand at any time:

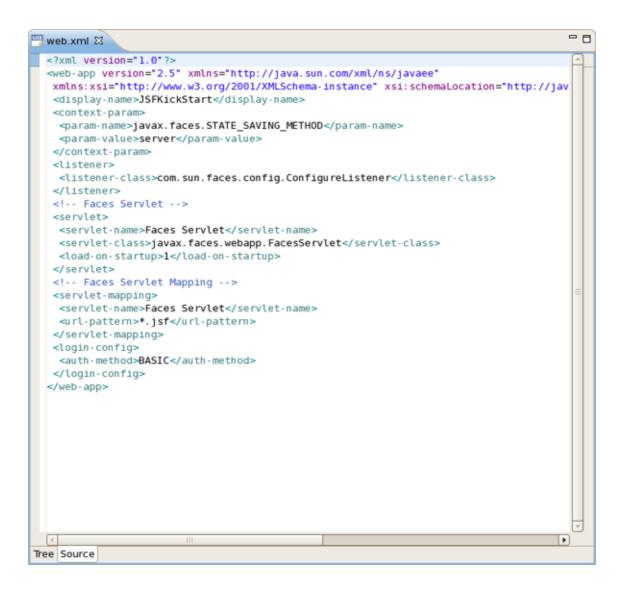


Figure 3.92. Web XML Source View

3.3.3.3. Content Assist

Content assist is available in the Source viewer. Simply click CTRL-Space anywhere in the file.

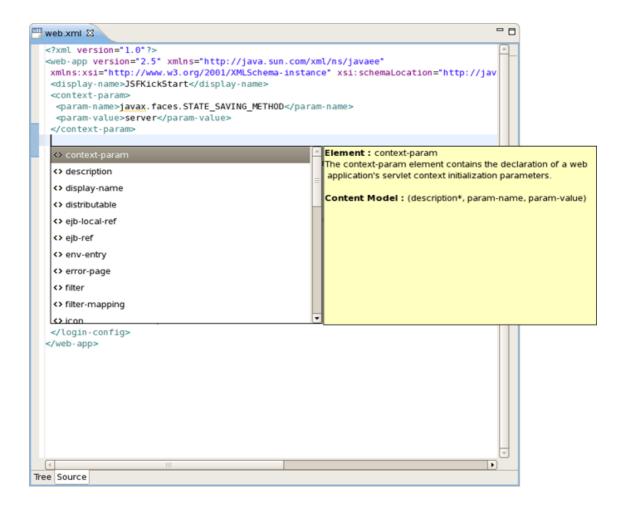


Figure 3.93. Web XML Content Assist

3.3.3.4. Errors Checking and Validation

If errors occur anywhere in the file, small red dots will appear next to the lines where the errors occurred. Also, note that the file is marked by a small x in the Package Explorer view.

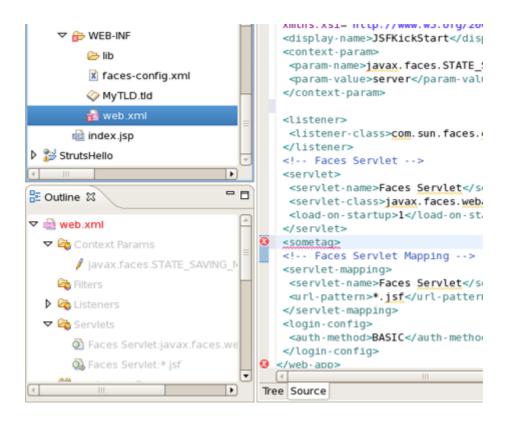


Figure 3.94. Errors Reporting

3.3.4. CSS Editor

The CSS editor comes with the same features you will find in all other JBoss Developer Studio editors.

- Content assist
- Validation and error checking

With the CSS (Cascading Style Sheet) editor, you can take advantage of code prompting:

inputUserName.jsp 🔯 *stylesheet.css ⊠	- 0
<pre>} .itemizedlist { FONT-SIZE: 12px; PADDING-BOTTOM: 0px; MARGIN: 0px; PADDING-TOP: 0px;TEXT-ALIGN: j }</pre>	justify
. term { FON border-left PRE.JAV border-left-color LIN border-left-style } PRE.XML LIN border-left-width LIN border-right }	
PRE.JSP border-right-color LIN border-right-style } border-right-width LIN border-style } border-style } border-top .java_t border-top-color	
<pre>} .java_keyword { FONT-WEIGHT: bold; COLOR: rgb(0,0,0) } .java_javadoc_comment { COLOR: rgb(147,147,147); FONT-STYLE: italic; BACKGROUND-COLOR: rgb(247,247,247) } </pre>	•

Figure 3.95. CSS Editor

And you can also use the Properties view next to the editor to edit existing stylesheet declaration properties:

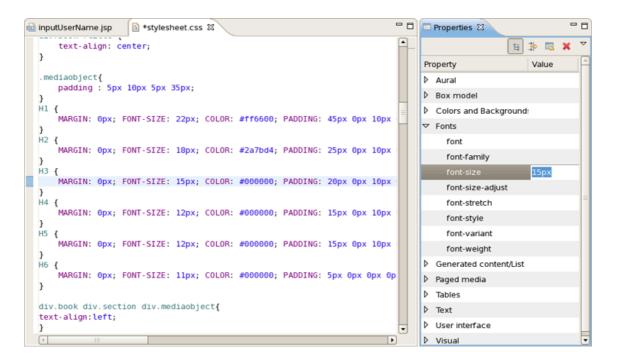


Figure 3.96. Properties View in CSS Editor

To make you work on CSS files more comfortable, CSS perspective is available, read more about it in <u>CSS Editing Perspective chapter</u>

3.3.5. JavaScript Editor

The JavaScript editor includes a Preview viewer and a Source viewer. In the Source viewer, you can use code assist:

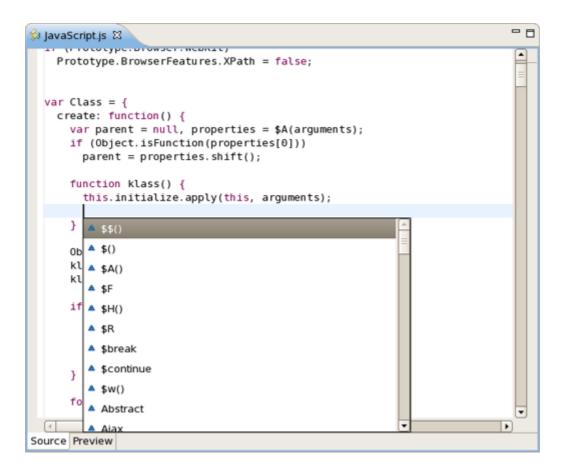


Figure 3.97. JavaScript Editor

You can also use the Source viewer with the Outline view to navigate around the file:

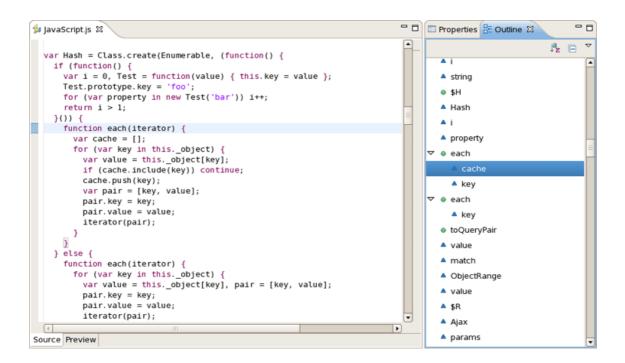


Figure 3.98. Source Viewer in JavaScript Editor

3.3.6. XSD Editor

JBoss Developer Studio comes with an XSD Editor for XML Schema files. This editor comes from the Web Tools Project (WTP) (see <u>WTP Getting Started</u>).

To create a new XSD file, right-click a folder in the Package Explorer view, select New > Other... from the context menu and then select XML > XML Schema in the dialog box.

@	New
Select a wizard	
Create a new XML schema file	
<u>W</u> izards:	
type filter text	
· · · · · · · · · · · · · · · · · · ·	
User Assistance	
👂 🗁 Web	
Web Services	
V 🗁 XML	
DTD	
XML	
S XML Schema	=
👂 🗁 Examples	V
() < <u>B</u> ack	Next > Einish Cancel

Figure 3.99. Creating New XSD file

The XSD Editor includes two viewers for working on the file, a Design viewer and a Source viewer:

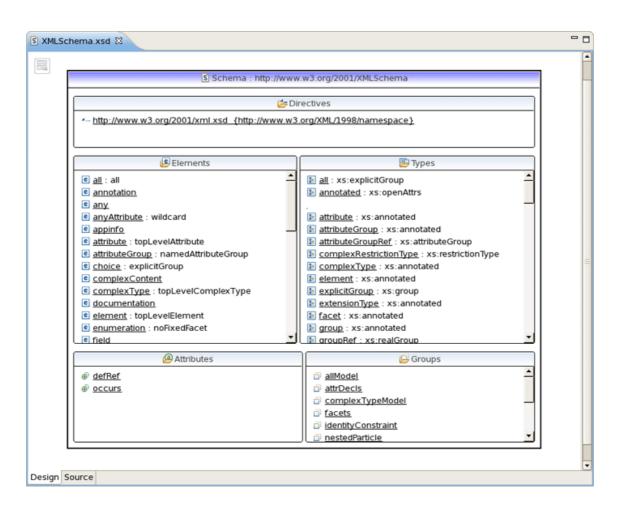


Figure 3.100. Source Viewer in XSD Editor

In the Design viewer, you can drill down on an element by double-clicking on it:

Choice I choice	XMLSchema.xsd 않		
choice fe explicitGroup in a choice in a choi	2		
Image: Second	•		
Image: Second	choice	explicitGroup	
Image: Second			
Image: Second state of the second s		(i) ref QName	
e group groupRef e element localElement e choice explicitGroup ge sequence explicitGroup		🔞 anyAttribute	
Image: Constraint of the second se		J annotation [01] (annotationType)	
「「」」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「		e group groupRef	
go sequence explicitorioup		element localElement	
go sequence explicitorioup		🚥 😰 🖶 🖉 choice explicitGroup	
_∰ any (anyType)		💴 🚽 🖉 sequence explicitGroup	
		星 any (anyType)	
		-go any (any type)	
	ign Source		

Figure 3.101. Design Viewer in XSD Editor

- 0 S XMLSchema.xsd 🛿 R choice 🗈 explicitGroup NCName Add Attribute (a) name ③ ref 🔞 anyAttr 🔀 Delete 🕖 annotat וType) e group Show properties c elemen , ent Refactor 🔁 📌 choice up • up References 🛃 sequen 🕖 any Input Methods ٠ Design Source

Various edit options are available when you right-click an element in the diagram:

Figure 3.102. Edit Options in XSD Editor Context Menu.

S XMLSchema.xsd	x							٥
Choice				🖪 expli	citGrou	p		-
				aname		NCName	7	
				In the second		QName		
				🔞 anyAttribute				
				Æ annotation	[01]	(annotationType)	7	
			Г	🕒 group		groupRef		
				element 🕘		localElement		=
			^{−−} - <u>₽</u> -€-	Æ choice		explicitGroup		
				🖉 sequence		explicitGroup	_	
				🐙 any		(anyType)		
								Ŧ
Design Source								
Properties							~ •	
attribute								
General	Name:	ref						Ç
Constraints	Type:	xs:Q	Name				-	
Documentation	Usage:						•	
Extensions	ssuge.							

You can also use the Properties view to edit a selected element:

Figure 3.103. Properties View in XSD Editor

You can also use a Source viewer for the file. In this viewer, along with direct editing of the source code, you can also edit the file by using the Properties view on the right:

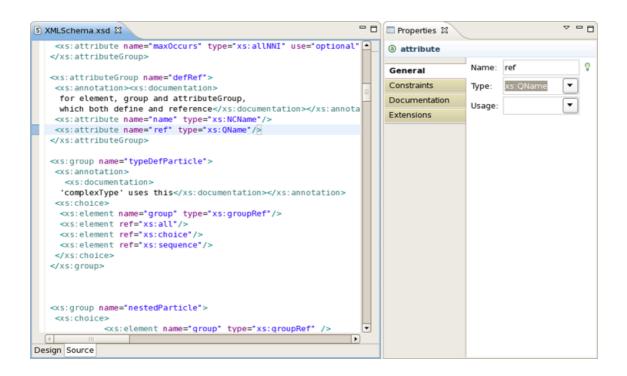


Figure 3.104. Using Source Viewer and Properties View together for source code editing

3.3.7. Support for XML Schema

JBoss Developer Studio fully supports XML files based on schemas as well as DTDs:

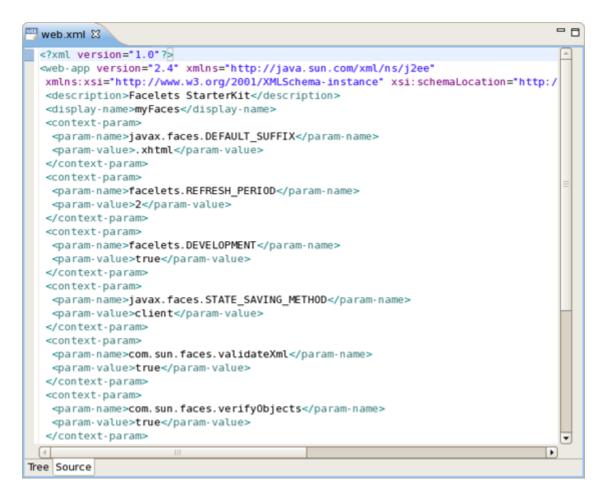


Figure 3.105. XML File

JBoss Tools Palette

This chapter will introduce you to the functionality provided by JBoss Tools Palette. The Palette allows you to quickly and easily create your JSP or JSF pages. Now you can do it more faster without additional knowledge.

The JBoss Tools Palette allows you to:

- · Insert tags into a JSP or JSF page with one click
- Add custom and 3rd party tags

The JBoss Tools Palette contains a developer's project tag libraries and provides possibility to add any tag libraries to it. Also you can choose a necessary one from the list of already existed tag libraries:

- HTML
- JBoss
- JSF
- JSTL
- MyFaces
- Oracle ADF Faces
- Struts
- XHTML



Figure 4.1. Default View of The JBoss Tools Palette

By default JBoss Tools Palette is not displayed. If you want to use it select *Window > Show View Other... > JBoss Tools Web > JBoss Tools Palette* from the menu bar.

The standard Eclipse Palette is displayed by default in both Web Development and Seam perspectives. Now, the standard Eclipse Palette is featured with all JBoss Tools Palette options and capabilities.

To open the standard Eclipse Palette navigate to *Window->Show View->Others->General-*>*Palette*.

The differences between the two palettes are as follows:

- The standard Eclipse Palette is blank by default; the content of the palette is available only if Visual Page Editor is open and active, while JBoss Tools Palette always contains a predefined set of components.
- The Expanded/Collapsed state of components in the standard Eclipse Palette is not global as in JBoss Tools Palette: the state is associated with an instance of Visual Page Editor. It means that the state can be different for various files, and each new file opened in Visual Page Editor will have the default state of Palette with all components collapsed.

4.1. Palette Options

To facilitate your work, you can configure the Palette in your own way, by selecting the corresponding icon on the Palette toolbar.

There is a possibility to configure the JBoss Tools Palette:

- to edit the palette content by adding, removing or changing the palette elements
- to show/hide groups, subgroups
- to import groups, subgroups

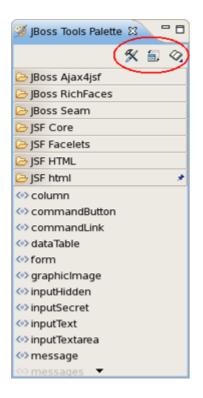


Figure 4.2. Palette Buttons

4.1.1. Palette Editor

JBoss Tools Palette contains existing libraries of tags, thus the Palette editor is intended to work with them or create your new one, as well.

То	open	the	editor,	click	on	the	Palette	Editor	
icon(X).

The window has two parts. There is a reflected grouped list of components on the left side of the palette editor. Each group is divided into multiple groups, every of which is a tag library. The right side of the palette editor is an editing window where it's possible to change values of group or tag library attributes that you've chosen on the left part of the window.

It can also be done by right click and using *Edit...* option.

For example, JSF group consists of Core, Facelets, HTML tag libraries and the attributes as name, description and hidden which are available for editing:

Palette Editor				
▼ 😂 XStudio	name	value		
👂 🖏 Icons	Element Type	group		
⊽ 🚿 Palette	Name	JSF		
D 😑 HTML	Description			
🕨 🔒 jBoss	Hidden	no		
🔻 🚔 JSF				
👂 😂 Core				
👂 🐸 Facelets				
D 🐸 HTML	-			
ISTL				
D 🚔 MyFaces				
	U C	Restore Defaults		
		OK Cancel		

Figure 4.3. Tag Libraries of the JSF Group

The Palette Editor provides the following possibilities when working with existing tags or icons:

• to work with a set of icons

lcons is the root folder for the icon sets. The first step is creating the icon set. Right click on the *lcons* folder and select *Create > Create Set...*

Set the value of the name in the *Add Icons* window and click *Finish* button. A new element will appear in the list.

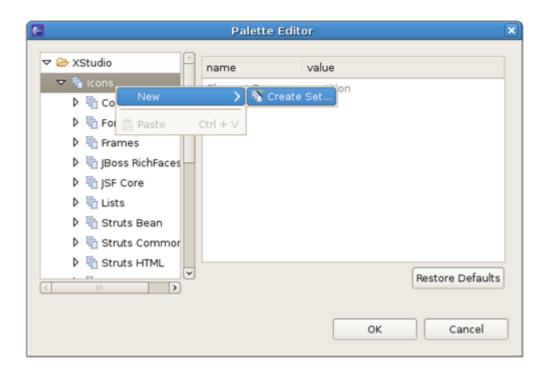


Figure 4.4. Creating a Set of Icons

Also you can delete the set. Right click on the set of icons that you wish to remove and chose the *Delete Set* option from the pop-up menu or click the *Delete* keyboard button.

• to edit icons in the chosen set

When the set of icons is created, new icons can be imported to it. Choose the required set and select the option *Create > Import Icon...* from the pop-up menu that appears after you right-click on a folder.

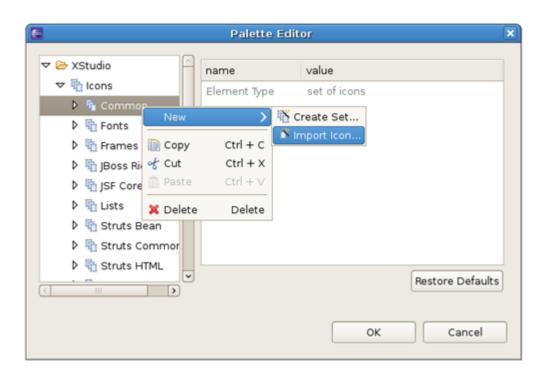


Figure 4.5. Creating Icons

Set the name of the icon and the path and click *Finish* button.

• to work with a group of tag libraries

The first step in work with the editor is creating a group of libraries. It's very easy to do, right mouse button click on the *Palette* folder and select *Create > Create Group...*

Set a name of a group in the Create Group window and click *OK* button. A new element will appear at the end of the list.

6	Palette Ec	litor	×
▽ 🗁 XStudio	name	value	
Icons	Element Type	partition	
✓ Ø Palette ▶ ⓐ New	> 🖾 Create		
🕨 🔷 👘 Paste 🛛 Ctri	+ \		
🕽 🔷 JSF			
Þ 🗎 JSTL			
👂 🔷 MyFaces			
👂 🚊 Oracle ADF Faces			
👂 🚊 Struts			
XHTML	L		
			Restore Defaults
		ОК	Cancel

Figure 4.6. Creating a Group of Tag Libraries

You are allowed to edit or delete a group, as well. If you'd like to change attributes of a group, use the right editing window of the palette editor or the *Edit...* option, like it was mentioned before. In order to remove the group, right click on the group that you wish to remove and choose the *Delete* option or click the *Delete* keyboard button.



• to work with a tag library

The group maintains a list of tag libraries. If you'd like to create your own library, click right mouse button on the group and choose *Create Group...* option.

6	Palette	Editor	×
▽ 🗁 XStudio	name	value	
🕨 🏪 Icons	Element Type		
🗢 🚿 Palette	Name	HTML	
🕨 🚔 HTT 🎒 Create Grou			
P 📑 JBo		yes	
Edit		,	
👂 🗀 JST 📗 Copy	Ctrl + C		
🕨 🗀 My 🚽 Cut	Ctrl + X		
🕨 🧰 Ora 🛅 Paste	Ctrl + V		
👂 🗎 Str 💥 Delete	Delete		
		Restor	e Defaults
		ОК	Cancel

Figure 4.7. Creating a tag library

After setting the attribute name and the path of the icon, click *Ok* button.



You are allowed to edit or delete the tag library, as well. If you'd like to change attributes of the library or choose another icon, use the right editing window of the palette editor or the *Edit...* option. In order to remove the tag library, right click on the library that you wish to remove and chose the *Delete* option or click the *Delete* keyboard button.



• to work with a tag element

When the library folder is created, new tags can be added to it. Choose the required library and select the option *Create > Create Macro...* from the pop-up menu that appears after you right-click on a folder.

6		Pal	ette Edit	or 🗙
▼ 🗁 XStudio	name			value
Icons		Element	Туре	sub-group
▼ 🚿 Palette		Name		Block
T 🗎 HTML	=	lcon		
D 🐸 B Edit			રા	http://www.w3.org/TR/REC-html40
▷ 😂 C New		>	🚺 Creat	te Macro
D 🐸 F D 🐸 Fr 🗎 Copy		Ctrl + C	refix	
▷ 🐸 S of Cut		Ctrl + X	c insertio	ı true
P ≥ S Paste		Ctrl + V		no
P ≥ Te S Delete		Delete		
Restore Defaults				
				OK Cancel

Figure 4.8. Creating a tag element

In the Add Palette Macro window, you can configure the tag element. Attribute *Name* is mandatory to fill and it will be the name of the tag element. Other settings are optional. You can choose the icon and set the *Start Text* and the *End Text* for your tag element. If your tag text is too long, use the *Change...* button to see it all. For *start text* and *end text* there is a possibility to control the cursor position by using "|" symbol.

6	Palette Ec	ditor 🔹
▼ 🗁 XStudio	name	value
👂 職 Icons	Element Type	macro
⊽ 🚿 Palette	Name	а
T 🗎 HTML	Icon	%Icons%/Struts HTML/link
Block	Large Icon	
🗢 😂 Core	Description	<html></html>
⊛ a	Start Text	
address	End Text	
area	Automatically Re	efo yes
ody		
<>> h1	~	Restore Defaults
		OK Cancel

Figure 4.9. Parameters of the Palette element

After all the attributes are set, click *Finish* button.



You are also allowed to edit or delete the tag. If you'd like to change the attributes of the tag or choose another icon for it, use the right editing window of the palette editor or the *Edit...* option from the pop-up menu. In order to remove the tag, right click on the tag that you wish to remove and chose the *Delete* option or click the *Delete* keyboard button.



The removal option is enabled only for custom tags. JBoss Palette tags can not be removed but can be modified.

If you have changed any abject in the tree view and you don't like the final result you can always use the *Restore Defaults* button. Click on it will restore defaults for the object selected and for its children elements. Please remember that the button will only restore data for objects defined in the default palette. If selected object is created by you, the button will be disabled. Child objects added by you will not be removed.

When updating JBoss Tools the palette content is not updated.

4.1.2. Show/Hide

Show/Hide is a very useful feature that allows you to control the number of tag groups that are shown on the palette.

Click

Show/Hide

),

button(button b

• In the dialog Show/Hide Drawers check the groups the libraries of which you want to be shown on the palette:

۲	Show/Hide Drawers	×
Custom	ize Palette	
	Boss SF STL lyFaces bracle ADF Faces truts	Show All Hide All
	Ok	Cancel

Figure 4.10. Show/Hide Drawers

If libraries are not displayed in the palette, check whether they are selected. Click the plus sign to expand the libraries of the group and make sure that a tick is put next to the wanted libraries.

• Click OK. The new groups will now be shown on the palette:

🚿 JBoss Tools Palette 🛛 🖳 🗖
🕺 🗐 🔗
Block
Core HTML Core
C> HTML Form
🔁 HTML Frames
C HTML Scripts
🔁 HTML Table
🔁 HTML Text
🗁 JBoss Ajax4jsf
🗁 JBoss RichFaces
궏 JBoss Seam
😂 JSF Core
JSF Facelets
JSF HTML
MyFaces Extensions
MyFaces Sandbox
🗁 MyFaces Tomahawk
C> XHTML List
XHTML Object
> XHTML Structural
> XHTML Table
> XHTML Text
C XHTML XForms Basic

Figure 4.11. New Added Groups

The names of the elements are compound. The first part is the group name and the second is the library name.

4.1.3. Import

The Import button lets you add a custom or 3rd party tag library to JBoss Tools Palette. Find out more information on how to add particular tags see the <u>Adding Custom JSF Tags</u> section.

4.2. Using the Palette

4.2.1. Inserting Tags into a JSP File

A new tag can be added into any text file including jsp, htm, html and xhtml.

Let's do it. Open your JSP file and place the cursor in a place where you'd like to add a tag and then click that tag in the palette. In the Insert Tag window, that appears, you can set the value of *general* and *advanced* attributes of the tag that you chose.

1	Insert Tag	
h:commandButto	n> attributes	
General Advanced		
Attribute name	Value	(A)
action		
value		
accesskey		
actionListener		
alt		
binding		
dir		
disabled		
id		
image		
٢		
0		<u>F</u> inish Cancel

Figure 4.12. Inserting Tag

In the example below, the *commandButton* tag has been inserted.

inputUserName.jsp ⊠	- 0	🚿 JBoss Tools Palette 🛿 🦳 🗖
<f:loadbundle basename="demo.Messages" var="Message"></f:loadbundle>	–	🕺 🗐 📀
<html></html>		🗁 JBoss Ajax4jsf
<head></head>		🗁 JBoss RichFaces
<title>Input User Name Page</title>		🕞 IBoss Seam
		> ISF Core
<body></body>		> ISF Facelets
<f:view></f:view>		SISF HTML
<pre><hl><h:outputtext value="#{Message.header}"></h:outputtext></hl></pre>		
		SF HTML taglib
<h:messages style="color: red"></h:messages>		column
		commandButton
<h:form id="greetingForm"></h:form>		🐵 commandLink 🤊
<h:outputtext value="#{Message.prompt_message}"></h:outputtext>	Syntax:	
<h:inputtext required="true" value="#{user.name}"></h:inputtext>	<h:commandbutton< td=""><td>/></td></h:commandbutton<>	/>
<f:validatelength maximum="30" minimum="3"></f:validatelength>	Attributes:	
		r, id, immediate, rendered, value,
<h:commandbutton action="hello" value="Say Hello!"></h:commandbutton>		disabled, image, label, lang, onblur,
<h:commandbutton action="Hetto" hetto:="" value="Say"></h:commandbutton>		ondblclick, onfocus, onkeydown, ip, onmousedown, onmousemove,
<h:commandbutton action="" value=""></h:commandbutton>		useover, onmouseup, onselect,
		eClass, tabindex, title, type, binding
		C Struts Bean
		Struts Common
		C Struts Form
	V	C Struts HTML
	>	Struts Logic
html body f:view h:form	×	Struts Nested
Visual/Source Visual Source Preview		🕞 Struts Tiles

Figure 4.13. Inserting Tag



The cursor position after adding a tag into a file is specified by "|" symbol in the tag template on the right in the Palette Editor window.

E		Palette Edito	or		×
 ▷ ➢ Core ▽ ➢ Form □ button 		name Element Type Name Icon	value macro input		
 choosing fieldset file form hidden 		Large Icon Description Start Text End Text Automatically Refo	<html> <input nam<="" td="" type=" "/><td></td><td>:tr></td></html>		:tr>
input Input Input Input Input Input Input	•		ОК	Restore Defa	

Figure 4.14. Palette Editor

Above you can see where the cursor position for HTML > Form > input is set. Thus, after adding this tag into your file the cursor will be in the attribute "type". Then, you can straight use the combination of buttons Ctrl + Space to inquire about a prompting.

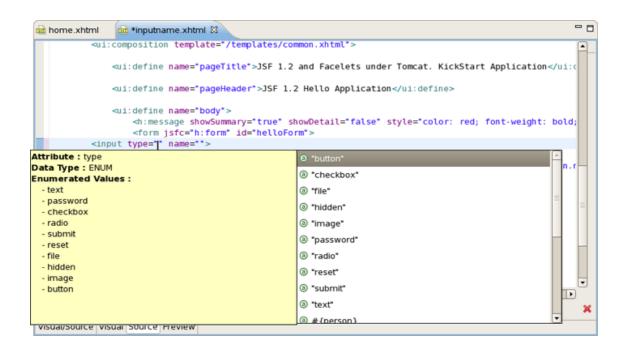


Figure 4.15. Cursor position

4.2.2. Adding Custom JSF Tags to the JBoss Tools Palette

There are two ways to add any custom (including custom Facelets libraries) or 3rd party tag library to the JBoss Tools Palette:

- Drag-and-drop from the Web Projects view
- The Import button on the JBoss Tools Palette

Before you add your custom component library, you need to make sure it is included in your project. You need to either place the ".*tld*" file or the ".*jar*" that includes your tag library under the lib folder in your project. Or you can just add ".*tld*" or ".*jar*" file to the classpath , and the library will be added to the Tag Library List in Web Projects View.

4.2.2.1. Drag-and-Drop

Switch to the Web Projects view and expand the Tag Libraries folder. If the view is not active, select *Window > Show View > Web Projects* from the menu bar.

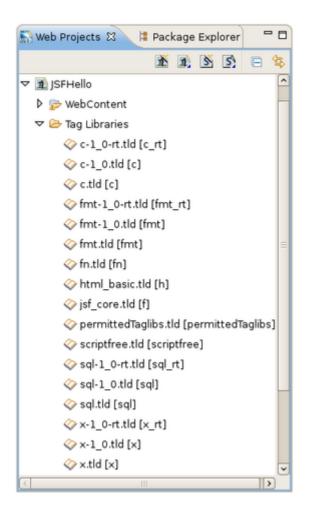


Figure 4.16. Web Projects View

Also make sure that the JBoss Tools Palette is open. Select the tag library that you want to add and simply drag-and-drop it on to the JBoss Tools Palette.

You will see the following dialog window. As you can see JBoss Developer Studio takes care of all the details. Chosen *TLD file*, *name* and *prefix* of the library and *Library URL* are detected, thus just need to set the *Group* name to which you wish to place this tag library. You can either add this tag library to an existing Group or just create a new one.

E	Import Tags from TLD File	×			
Create Macro from Tags in TLD file					
Parent group m	Parent group must be specified.				
TLD File*	TLD File* //JSFHello//META-INF/html_basic.tld Browse				
Name:*	html				
Default Prefix	h				
Library URI	http://java.sun.com/jsf/html)			
Add to Exist	ing Group				
 Create New 	Group				
	OK Cancel)			

Figure 4.17. Import Tags From TLD File Form

Once you are finished, you will see the new tag library added to the JBoss Tools Palette.

🧭 JBoss Tools Palette	23		- 0
	K	۵,	\Diamond
🗁 JBoss Ajax4jsf			
🗁 JBoss RichFaces			
🗁 JBoss Seam			
JSF Core			
🗁 JSF Facelets			
SF HTML			
5 JSF html			*
column			
commandButton			
commandLink			
dataTable			
form			
graphicImage			
inputHidden			
inputSecret			
inputText			
inputTextarea			
message			
messages			
outputFormat			
outputLabel			
outputLink			
outputText			
opanelGrid			
(a) nanelGroun			_

Figure 4.18. JBoss Tools Palette with New Tag Library

4.2.2.2. Import Button

The	same	you	can	do	with	Import	
button(🙆).You
can see this	button at the to	op right side o	of the JBoss T	ools Palette).		

By clicking on the *Import button* you will see the Import Tag window a similar like in the <u>Drag-and-Drop</u> method. Set the name and prefix of the library and Library URL. Also you need to set the Group name to which you'd like to add your tag library. And like in the previous method you can add it to an existing Group or create a new one. On this Import Tag form you can use *Browse...* button to locate the tag library that you want to add:

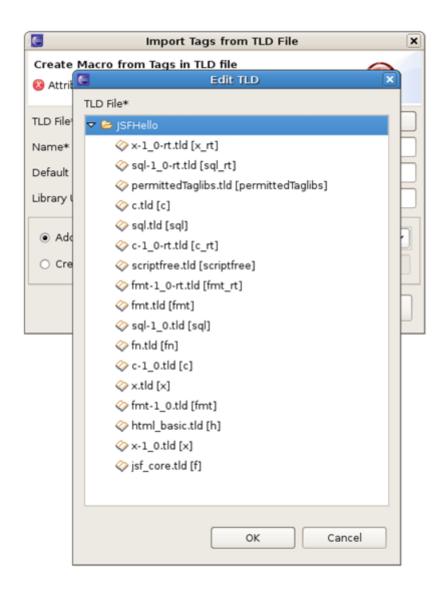


Figure 4.19. Select TLD File

CSS Editing Perspective

In this chapter we will discuss CSS Editing Perspective views, more information about style sheets can be found in <u>Page Styling section</u> of Editor chapter

The CSS Editing Perspective combines a set of views which allow you to see the structure of your css files,edit them and see the results. To use this perspective you need to choose *Window* >*Open Perspective*> *CSS Editing* .All of the views are fully synchronized with each other:the changes being made in one view are reflected in othes at once.

As you know, there are three ways of inserting a style sheet:

- External style sheet (.css file)
- Internal style sheet (using the <style> tag in the head section of an HTML/XHTML/JSP page)
- Inline style (using style attribute)

Using CSS Editing Perspective you can change your style sheet, inserted in any of the possible places described before, in three ways:

- directly in your Editor
- using CSS Properties view
- using *Properties view*

🛱 Pack 🛛 🔝 Web 🛞 Sea 🗖 🗖	-	🗖 🗖 📴 Outline 😫 🔰	a ⊡ ∨ □ □
⊑ 🔄 🏹	text-align: <i>right;</i> }	Image: A stable Control	^
🕨 💯 src/main 📃		🗢 🗣 .footer	
IBoss 4.2 Runtime [JBoss 4.	.footer { text-align: center;	🗏 text-align	
👂 🐋 Web App Libraries	font-size: 10px;	A font-size	
JRE System Library [java-1.!]	}	▷ % .rich-table	
📂 build	.rich-table {	= ▼ 1 h1	
resources	width: 100%;	A font-family	
Src €	3	The color	=
⊽ 🗁 WebContent	h1 {	A font-size	
D 🍋 img	font-family: Arial,sans-serif; color: #578BB8 ;	margin-top	
D 🗁 layout	font-size: 1.6em;	P ™ body	
D 🗁 META-INF	margin-top: 0;		
✓ ➢ stylesheet	<u> </u>		
theme.css	body {	D % .columnHeader:hover	~
WEB-INF			>
	ि CSS Properties अ	📑 🔻 🗖 🗖 🗟 CSS Pre 🕱 🧯	JBoss S 🗖 🗖
Customers.page.xml			
Properties 🕱 📃 🗖	Font Family: Arial,sans-serif	Double clic	k to edit
	Background		
🖻 🔚 🔅 🗶 🎽	Boxes Color: #578BB8	review.	
Property Value	Font Size: 1.6	✓ em ≎	
▼ Aural	Edited Properties		
azimuth	Font Style:	~	
cue	Font Weight:	~	
cue-after	Text Decoration:	~	
cue-before		`	
elevation	Text Align:	~	

Figure 5.1. CSS Editing Perspective

5.1. Outline view

Using this view you can easily skip between the selectors described in the source files, see the list of properties in any selector just by clicking the triangle near it.

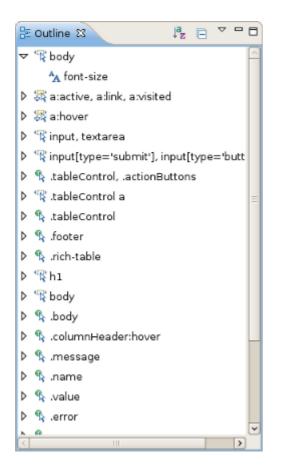


Figure 5.2. Outline view

You can use the Source viewer with the Outline view to navigate around the file. To do this you should just left click the selector or property you want and it will be automatically highlighted in the source code:

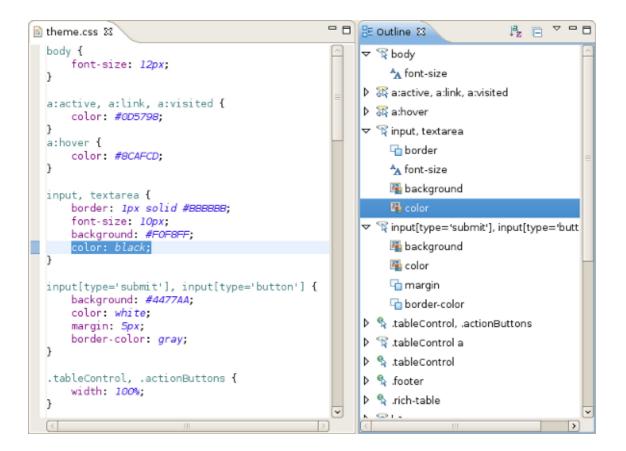


Figure 5.3. Navigating around the file

5.2. Properties view

Properties view provides a full list of properties of a chosen selector. The properties are divided into logic groups for better navigation.

🗟 theme.css 🕱	- 0	Properties 🛛 🦳 E
} a:hover {	^	e 🗄 🛱 🖉 🗶 🗸
color: #BCAFCD;	_	Property Value
}	=	Aural
input, textarea {		▶ Box model
border: <i>1px solid #BBBBBB</i> ; font-size: <i>10px</i> ;		
background: #F0F8FF;		background #4477AA
color: <i>black</i> ;		background-attachment
1		background-color
input[type='submit'], input[type='button'] {		background-image
background: #4477AA; color: white;		background-position
margin: 5px;		background-repeat
border-color: gray;		color white
		⊽ Fonts
.tableControl, .actionButtons {	~	font
	\geq	

Figure 5.4. Properties view

With the help of Properties view you have also the possibility to edit the css file by adding/editing/ removing properties in the selector. Left click the "*Value*" field near the property you want to edit and write the changes in the text field.

stheme.css 🛛	- 8	□ Properties 🛛	- 6
} a:hover {		e 🗉	🗄 🖪 🗙 🎽
color: #BCAFCD;	_	Property	Value
}	-	▶ Aural	=
input, textarea {		Box model	
border: <i>1px solid #888888</i> ;			
font-size: <i>10px;</i> background: <i>#F0F8FF</i> ;		background	#4477AA
color: <i>black</i> ;		background-attachment	
3		background-color	
<pre>input[type='submit'], input[type='button'] {</pre>		background-image	
background: #4477AA; color: white;		background-position	
margin: 5px;		background-repeat	
border-color: gray;		color	white
		⊽ Fonts	
.tableControl, .actionButtons {	~	font	~
	>	< III	>

Figure 5.5. Updating css using Properties view

5.3. CSS Properties view

CSS Properties view has five tabs:

- <u>Text/Font</u> [117]
- Background [118]
- <u>Boxes</u> [118]
- Property Sheet [119]
- Edited Properties [119]
- CSS Text/Font properties define the appearance of text, its font family, boldness, size, and the style.

🖹 CSS Properties 🕺		d
Text/Font		
Background	Font Family:	S1
Boxes	Color:	
Property Sheet	Font Size:	
Edited Properties	Font Size:	· · ·
	Font Style:	
	Font Weight:	
	Text Decoration:	
	Text Align:	

Figure 5.6. Text/Font tab

For example, to define the "font-family" property you should click Choose font family button(

Aa

near Font Family text field and select the fonts you want to use from the list.

)

E	Choose font family	/
Nimbus Mono L Nimbus Roman No9 L Nimbus Sans L Norasi OpenSymbol Ostorah Ouhod Petra Phetsarath OT Pothana2000 Purisa Rachana		Serif
		Cancel OK

Figure 5.7. CSS Text/Font tab

When you click *Ok* the chosen fonts should appear in *Font Family* text field and in the sourse css file. To define other properties in CSS *Text/Font* tab you should just click button near the corresponding field you want and select the appropriate option in the list. Or if you are absolutely sure of the property's value to use you can just write it in the text field.

• You should use CSS background properties and *Background* tab to define the background effects of an element.

Boxes tab is used to define CSS border properties and the box model. The CSS border properties allow you to specify the style and color of an element's border.

As well as in Text/Font tab, it's also possible to define the property in two ways:

clicking



choosing it from the list of options:

and

CSS Properties 🛿			2 - 6
Text/Font Background	Background Color:		
Boxes	Background Image:		\[\] \[
Property Sheet	Background Repeat:		~
Edited Properties	Background hepeach	report	
		repeat	
		repeat-x	
		repeat-y	
		no-repeat	

Figure 5.8. Defining the property

- writing the property in the appropriate text field
- Property Sheet tab contains the categorized list of properties. Like in <u>Properties view</u> it's possible to edit the properties values.

CSS Properties 🛿		2 - 8
Text/Font	Attribute	Value
Background	Positioning	=
Boxes		
Property Sheet	content	
Edited Properties	counter-increment	
	counter-reset	
	quotes	
	counter-increment	
	counter-reset	
	quotes	
	III	

Figure 5.9. Property Sheet tab

• *Edited Properties* tab contains only the properties, defined in the selector.

🖹 CSS Properties 🛿		2 - 0
Text/Font	color red	
Background		
Boxes	padding-left 2	px 🗘
Property Sheet		
Edited Properties	1	

Figure 5.10. Property Sheet tab

It's also possible to edit the properties in the tab.

5.4. CSS Preview

Using CSS Preview you can see how a selector affects any text.

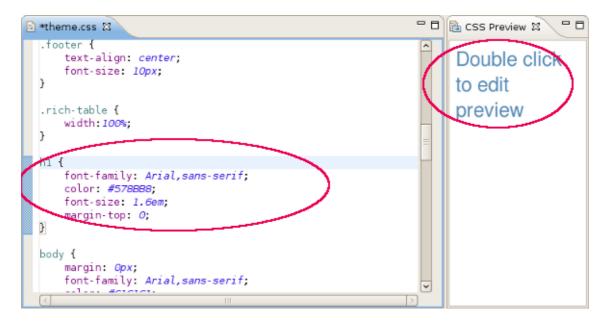


Figure 5.11. Property Sheet tab

The preview is also edited by double click. You can write instead of the default text any text you want, including html tags.

RichFaces Support

JBoss Developer Studio comes with a tight integration with <u>RichFaces component framework</u>.

Note:

<u>*RichFaces 3.3.X*</u> is fully supported in the current version of JBoss Developer Studio (i. e. 2.1.0.GA) and JBoss Tools 3.0.1.GA.

The following features are implemented and fully supported for the current version of the RichFaces components:

- <u>Content Assist</u>
- <u>OpenOn</u>
- Representing in JBoss Tools Palette

All you have to do is to <u>download</u> and install RichFaces libraries into your project, i. e. just put *richfaces-*.jar* files into the */lib* project folder. Also how to get started with RichFaces you can find in <u>RichFaces documentation</u>.

6.1. Code Assist for RichFaces

JBDS/JBoss Tools indeed provide code completion for *<u>RichFaces</u>* framework components.



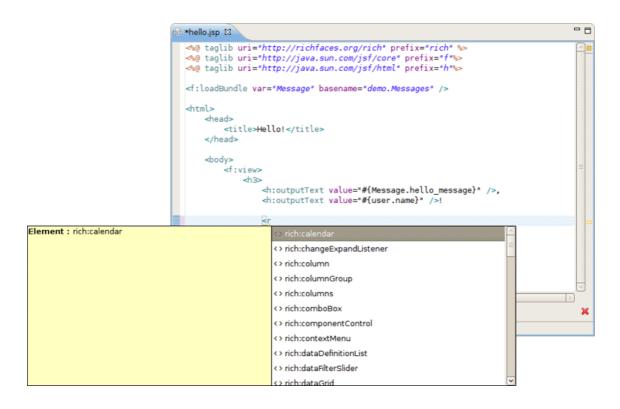


Figure 6.1. Content Assist for RichFaces Components

6.2. OpenOn for RichFaces

Working with .*jsp/.xhtml* pages in VPE you can also take the advantage of *OpenOn* feature for the RichFaces components.

For example, Richfaces tags <rich:insert> and <a4j:include>> has OpenOn support.



Figure 6.2. OpenOn With Richfaces Tag



Figure 6.3. OpenOn With A4j Tag

OpenOn is also supported in "ForID"-like attributes (the attributes, where the value should be ID or the list of IDs) in RichFaces.

📾 actionparam.xhtml 🕴					
5	<pre>template="/layout/template.xhtml" xmlns:a4j="http://richfaces.org/a4j"></pre>	^			
% R	<ui:define name="*body*"></ui:define>				
	<pre><rich:panel></rich:panel></pre>	=			
•	<pre><a4j:commandbutton rerender="rep" value="Set Name to Alex"> <a4j:actionparam #{="" <="" a4j:commandbutton="" assign="o=" name="username" value="Alex"></a4j:actionparam></a4j:commandbutton></pre>	a			

Figure 6.4. OpenOn With "ForID"-like attributes

6.3. RichFaces in the JBoss Tools Palette

RichFaces and JBoss Tools Palette.

🧭 jBoss Tools Palett 🛛 🗖 🗖
🛠 🗟 🔗
🗁 JBoss Ajax4Jsf
Boss RichFaces ©
💳 dataDefinitionList
📰 dataFilterSlider
🗰 dataGrid
😑 dataList
😑 dataOrderedList
🛄 dataTable
🐡 datascroller
🕪 dndParam
🐃 dragIndicator
🔁 dragListener
🔄 dragSupport
🛅 dropDownMenu
🚉 dropListener
🚔 dropSupport
👯 effect
Boss Seam
➢ JSF Facelets
≥ JSF HTML

Figure 6.5. RichFaces Components

To insert a RichFaces component on a page:

• expand JBoss RichFaces group on the palette

- click on some component
- put the needed attributes in the Insert Tag dialog and click Finish button

¢.		nsert Tag		[
<rich:calendar> a</rich:calendar>	ttributes			
Attribute name	Value			P
jointPoint				
localValueSet				
ocale				
monthLabels				
monthLabelsShort				
optionalFooter				
optionalHeader				
popup	false			
preloadDateRangeB	eg			
preloadDateRangeE	nd			
rendered				
0			Einish	Cancel

Figure 6.6. Inserting Tag

The RichFaces component will be inserted on your page and displayed in source and visual modes:

				2008			>>	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
			- E	2	3	4	5	
8	6	7	8	9	10	11	12	
,	13	14	15	16	17	18	19	1
)	20	21	22	23	24	25	26	
1	27	28	29	30	31			
7/0	1/200	8				Т	oday	
								1

Figure 6.7. RichFaces Component

6.4. Relevant Resources Links

To get more in-depth information on RichFaces framework refer to RichFaces Developer Guide.

It may be also helpful for you to look through the *movies* where there are ones that demonstrate the usage of RichFaces components.

Web Projects View

Web Projects is a special view that comes with JBoss Developer Studio.

If the Web Projects view's tab is not visible next to the Package Explorer tab, select *Window* > *Show View* > *Other* > *JBoss Tools Web* > *Web Projects* from the menu bar.

With the Web Projects view, you can:

- Visualize the project better because the project artifacts for JSF, Struts and Seam projects are organized and displayed by function.
- Select these kinds of items to drag and drop into JSP pages:
 - JSF managed bean attributes
 - JSF navigation rules outcomes
 - Property file values
 - Tag library files
 - Tags from tag libraries
 - JSP page links
- Use context menus to develop the application (all create and edit functions are available)
- · Use icon shortcuts to create and import JSF and Struts projects
- Expand and inspect tag library files
- Select custom and third-party tag libraries to drag and drop onto the JBoss Tools Palette

7.1. Project Organization

The Web Projects view organizes your project in a different way. The physical structure of course stays the same. The new organization combines common project artifacts together which makes it simpler to locate what you are looking for and develop.

The screen shot below shows a JSF project and a Struts project in Web Projects view.

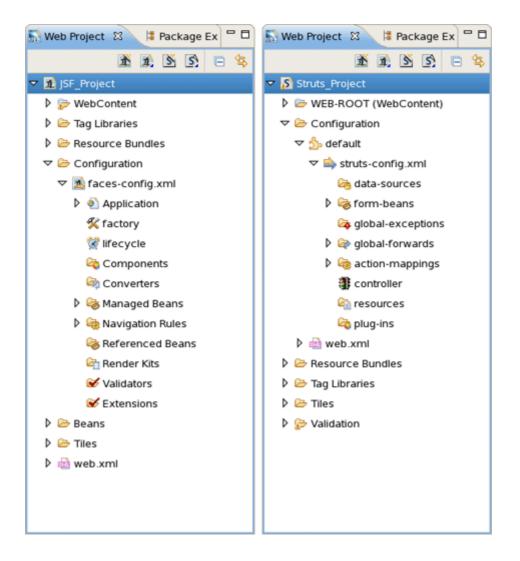


Figure 7.1. Web Projects View

7.2. Drag and Drop

Web Projects View has a drag and drop option that can be used for property, managed bean attributes, navigation rules, tag library file declaration and JSP Pages.

7.2.1. For a Property

Expand the Resources Bundles folder that holds all the Property files in your project. Select the file from which you want to add the property and then select the property.

We will be dragging and dropping a property file value inside the outputText tag for the "value" attribute.

```
<html>
<head>
<title>Input User Name Page</title>
</head>
<body>
<f:view>
<hl><h:outputText value=""/></hl>
```

Figure 7.2. OutputText Tag

Select the property:

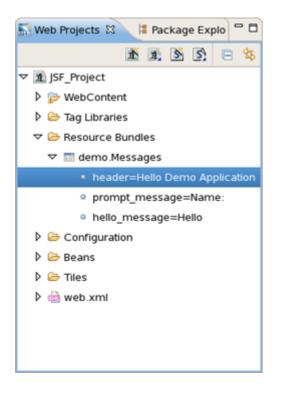


Figure 7.3. Selecting Property

Drag the property and drop it between the quotes for the value attribute in the JSP file. Notice that JBoss Developer Studio added the correctly formatted expression for referring to the property value #{Message.header} automatically.

```
<html>
<head>
<title>Input User Name Page</title>
</head>
<body>
<f:view>
<hl><h:outputText value="#{Message.header}"/></hl>
<h:messages style="color: red"/>
```

Figure 7.4. Inserted Property

You can actually place the tag anywhere in the page, not just inside an existing tag. In this case, JBoss Developer Studio will place the complete tag <h:outputText value="#{Message.header}"/> in the page.

7.2.2. For Managed Bean Attributes

Select a "managed bean" attribute and then drag and drop it onto the JSP page. We are going to place it inside the "value" attribute of the inputText tag.

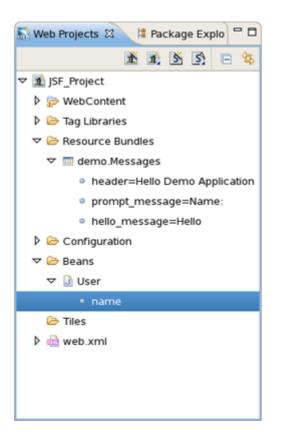


Figure 7.5. Selecting Managed Bean Attribute

Once again, JBoss Developer Studio adds the correct expression, #{user.name}.

```
<h:form id="greetingForm">
    <h:outputText value="#{Message.prompt_message}"/>
    <h:inputText value="#{user.name}" required="true">
        <f:validateLength maximum="30" minimum="3"/>
    </h:inputText>
```

Figure 7.6. Added Expression

7.2.3. Navigation Rules

Select the navigation rule under Configuration > faces-config.xml > Navigation Rules:

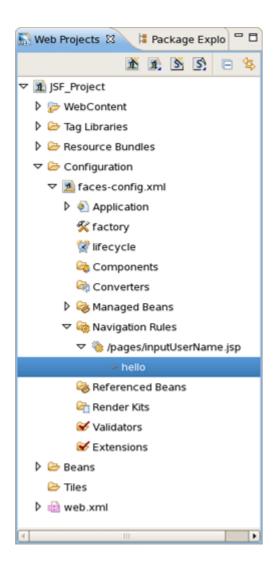


Figure 7.7. Selecting Navigation Rule

Drag and drop it inside the commandButton tag:

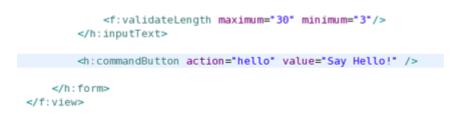


Figure 7.8. Navigation Rule in CommandButton Tag

You could do the same if the navigation rule was defined inside an action method:

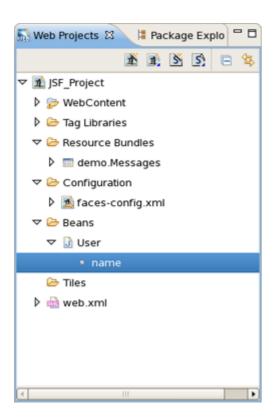


Figure 7.9. Navigation Rule in Action Method

Here is how it would look after drag and drop:

```
<f:validateLength maximum="30" minimum="3"/>
</h:inputText>
<h:commandButton action="#{user.name}" value="Say Hello!" />
</h:form>
```

Figure 7.10. Inserted Navigation Rule

7.2.4. For a Tag Library File Declaration

Select a TLD file:

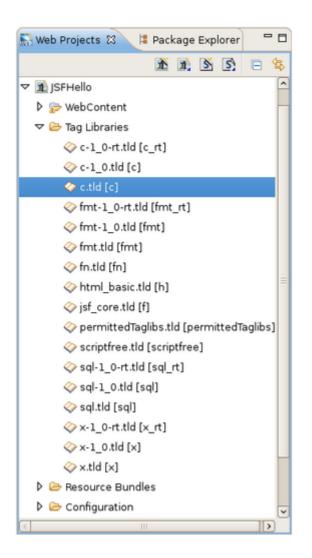


Figure 7.11. Selecting TLD File

Then drag and drop it onto the JSP page to add a declaration at the top of the page:

Figure 7.12. Inserted TLD File

7.2.5. For JSP Pages

You can also drag and drop a JSP page path to a JSP page to create a forward as shown:

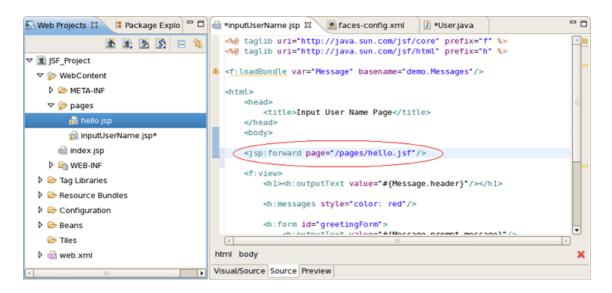


Figure 7.13. Creating JSP Forward

7.3. Developing the Application

It is also possible to develop your application right from the Web Projects view. Simply right-click any node in the tree and select an appropriate action from the context menu. For instance, this screen capture shows creating a new navigation rule.

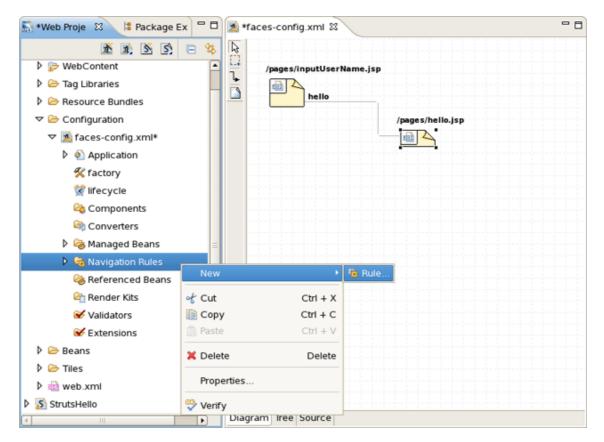


Figure 7.14. Creating New Navigation Rule

7.4. Expanding Tag Library Files

You can easily expand any TLD file in the project. Browse to the Tag Libraries folder. Right-click a TLD file and select *Expand*:

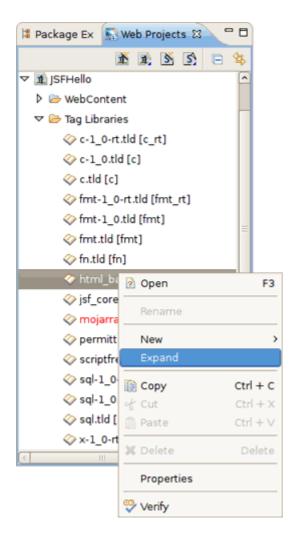


Figure 7.15. Expanding Tag Library File

The TLD file will now be expanded:

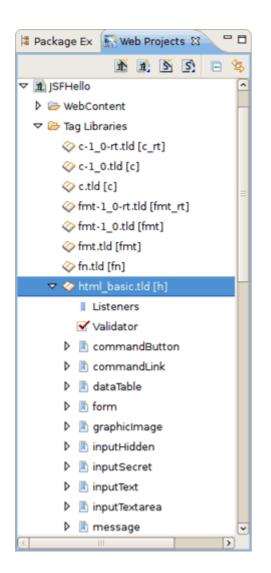


Figure 7.16. Expanded File

You can then select any tag and drag it onto a JSP page.

7.5. Drag and Drop Tag Libraries on to JBoss Tools Palette

Read Adding Tag Libraries to learn about this.

7.6. Create and Import JSF and Struts Projects

You can also create and import JSF and Struts project from Web Projects view by selecting the buttons below.

From left to right:

1. Create New JSF Project

- 2. Import JSF Project
- 3. Create New Struts Project
- 4. Import Struts Project

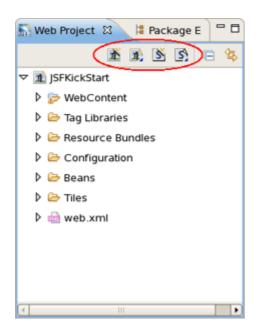


Figure 7.17. Web Projects View Buttons

JBoss Tools Preferences

Configuring the various JBoss Developer Studio features is done via the Preferences screen by selecting *Window > Preferences > JBoss Tools* from the menu bar.

	Preferences	×
type filter text	JBoss Tools	♦ <>> •
▶ General ▶ Agent Controller ▶ Ant ▶ Data Management FreeMarker Editor ▶ Help HQL editor ▶ Install/Update ▶ Java ▶ JavaScript ▶ JBoss jBPM ▼ JBoss Tools Packaging Archives ▼ Web ▶ Editors El Variables ▶ JSF Label Decorations ▶ Searn ▶ Struts ∨erification JPA ▶ Plug-in Development ▶ Profiling and Logging ▶ Run/Debug	JBoss Tools JBoss Tools	
Server Service Policies	*	
0	ок	Cancel

Figure 8.1. Preferences are included in this dialog.

From this screen, you can select these more specific sets of JBoss Tools preferences:

[•] Packaging Archives

- Editors
- <u>Visual Page Editor</u>
- El Variables
- <u>JSF</u>
- JSF Page
- JSF Project
- JSF Flow Diagram
- <u>Seam</u>
- Seam Validator
- <u>Struts</u>
- <u>Struts Automatic</u>
- Plug-in Insets
- <u>Resource Insets</u>
- <u>Struts Customization</u>
- Struts Project
- Struts Support
- Struts Pages
- Struts Flow Diagram
- Tiles Diagram
- Verification

The Preferences dialog (*Window* > *Preferences*) also allows to adjust settings for <u>JBoss Server</u> and <u>XDoclet</u> module.

8.1. Packaging Archives

Fallow to *JBoss Tools > Packaging Archives* to open the page for changing Packaging Archives preferences.

Here you can determine settings for Project Packages view and core preferences.

Image: System in the system is a system in the system is a	1	Preferences
 Agent Controller Ant Data Management FreeMarker Editor Help HQL editor Install/Update Java Java JavaScript Boss BPM Boss BPM Boss Tools Packaging Archives Veb JPA Plug-in Development Profiling and Logging Run/Debug Server Service Policies Team Test Validation Web Web Web Services XDoclet XML 	type filter text	🗍 Packaging Archives 🛛 🗢 🗸
 InstalijOpdate Java Java JavaScript JBoss jBPM JBoss Tools Packaging Archives Veb JPA Plug-in Development Profiling and Logging Run/Debug Server Service Policies Team Test Validation Web Web Web Services XDoclet XML 	 Agent Controller Ant Data Management FreeMarker Editor Help 	 Enable incremental builder Project Packages View Show full output path next to packages. Show the full root directory of filesets. Show project at the root
 ✓ JBoss Tools Packaging Archives ▷ Web JPA ▷ Plug-in Development ▷ Profiling and Logging ▷ Run/Debug ▷ Server Service Policies ▷ Team ▷ Test ∨alidation ▷ Web ▷ Web ▷ Web Services ▷ XDoclet ▷ XML 	⊅ Java Þ JavaScript	Show all projects that contain packages
 Plug-in Development Profiling and Logging Run/Debug Server Service Policies Team Test Validation Web Web Services XDoclet XML 	✓ JBoss Tools Packaging Archives	
▷ XDoclet ▷ XML Restore Defaults Apply	 Plug-in Development Profiling and Logging Run/Debug Server Service Policies Team Test Validation Web 	
	▶ XDoclet	

Figure 8.2. Packaging Archives

The next table lists all available preferences for Packaging Archives and their description.

Table 8.1. Packaging Archives Preferences

Option	Description	Default
Enable incremental builder	Uncheck this option if you don't want to enable incremental builder for your resources	On
Show full output path next to packages	This option allows you to show or hide an output path next to packages .	On

Option	Description	Default
Show the full root directory of filesets	If on, the full root directory is displayed next to filesets. Otherwise, it's hidden .	On
Show project at the root	This option allows you to choose whether to display a project name at the root of the packages or not. When checked, 'Show all projects that contain packages' is enabled.	On
Show all projects that contain packages	Selecting this setting enables the Projects Archiving view to show or hide all projects that contain packages. The option is available when the previous one is checked.	Off

8.2. Editors

To adjust settings common for all editors supplied with JBoss Developer Studio you should select JBoss Tools > Web > Editors.

8	Preferences	×
type filter text	Editors	⇔-⇔
 > General > Agent Controller > Ant > Data Management FreeMarker Editor > Help HQL editor > Install/Update > Java > JavaScript > JBoss jBPM ~ JBoss Tools Packaging Archives ~ Web 	Always use JBoss Tools editors with (Show warning when project has no J Use Source tab as a default for mut	Open option Boss Tools capabilitie
 Editors El Variables JSF Label Decorations Seam Struts Verification 		
 Plug-in Development Profiling and Logging Run/Debug Server Service Policies 	Restore D	

Figure 8.3. Editors

On the Editors page the following preferences are available:

Table 8.2. Editors Preferences

Option	Description	Default
Always use JBoss Tools editors with Open option		On

Option	Description	Default
Show warning when project has no JBoss Tools capabilities	Check this option to be sure that any JBoss Tools editor fully available for a particular type of file. If no, you'll be warned about this.	On
Use Source tab as a default for multi-tab editors	If on, an editor will open the files in the Source view by default	Off

8.3. Visual Page Editor

JBoss Tools > Web > Editors > Visual Page Editor screen allows you to control some aspects of the behavior of the Visual Page Editor (VPE) for JSF/HTML files.

9	Preferences
type filter text	Visual Page Editor 🔅 🗢 👻
▶ Install/Update	General Templates
D Java	Visual appearance
Java EE	Show border for unknown tags
JBoss jBPM	Show non-visual tags
JBoss jBPM	✓ Show selection tag bar
	Show text formatting bar
JBoss ESB Runtimes	□ Show resource bundles usage as EL expressions
JBoss Portlet	
Project Examples	Confirmation and details Ask for tag attributes during tag insert
⊽ Web	Ask for confirmation when closing Selection Bar
∀ Editors	
JSF Flow Diagram	Default tab, splitting and editor's weights to start VPE with
Seam Pages Diagra	Select the default active editor's tab
Struts Flow Diagran	Visual/Source
Tiles Diagram 🗏	Visual/Source editors splitting
Visual Page Editor	Vertical splitting with Source Editor on the top
El Variables	Size of the Visual Editor pane (0-100%)
Þ jsf	50% <
Label Decorations	
▷ Seam	
Struts	
Verification	
Maven	
Plug-in Development	
Project Archives	
▶ Run/Debug	
♦ Server	Restore Defaults Apply
?	Cancel OK

Figure 8.4. Visual Page Editor

The next table lists the possible settings that you can adjust on the General tab of the VPE Preferences page.

Table 8.3. VPE Preferences

Option	Description	Default
Show border for	The option allows to place the border around	On
unknown tags	unknown tags or undo this	

Option	Description	Default
Show non-visual tags	Check this box, if you want the editor shows non-visual elements on the page you're editing	Off
Show selection tag bar	The option allows to show/hide the Selection Bar	On
Show text formatting bar	Check this box in order to show/hide the Text Formatting bar	On
Show resource bundles usage as EL expressions	If the option is checked, the editor will show EL expressions instead of the resource values	Off
Ask for tag attributes during tag insert	Having this option off, the dialog with possible attributes for inserting tag won't appear if all its attributes are optional	On
Ask for confirmation when closing the Selection Bar	Check this box if you don't want the confirmation window appears when closing the Selection Bar	On
Select the default active editor's tab	The option provides possibility to choose one of the following views - Visual/Source, Source or Preview, as default when opening the editor	Visual/Source
Visual/Source editors splitting	The option allows to choose one of the following Visual,Source layouts - Vertical Source on top, Vertical Visual on top,Horizontal Source to the left or Horizontal Visual to the left, as a default one when opening the Visual/ Source view	Vertical splitting with Source Editor on the top
Size of the Visual Editor pane (0 – 100%)	With the help of this scroll bar you can adjust the percentage rating between the Source and Visual modes of the Visual/Source view	50%

On the Templates tab you can edit or remove <u>VPE templates</u>.

Preferences						
type filter text	Vi	isual Page Editor				
> General	A	General Templates				
▶ Ant		URI	Tag for Display	Tag Name	Children	(!:
Data Management						Edit
Drools		http://java.sun.com/jsf/html	unknownrag	h:unkonwntag	yes	Remove
Drools Task						
FreeMarker Editor						
Guvnor						
> Help						
HQL editor	=					
▷ Install/Update						
> java						
> JavaScript						
▶ JBoss jBPM						
≠ JBoss Tools						
JBoss Portlet						
⊽ Web						
JSF Flow Diagram						
Seam Pages Diagram						
Struts Flow Diagram						
Tiles Diagram						
Visual Page Editor						
El Variables						
▷ JSF						
Label Decorations						
Seam						

Figure 8.5. Visual Page Editor Templates

Select a template for editing from the available list and press *Edit* button. It will pick up the *Template dialog* [52] where you can adjust new settings.

8.4. El Variables

To specify necessary EL variables globally, i. e. for all projects and resources in your workspace, you should go to *JBoss Tools > Web > El Variables*.

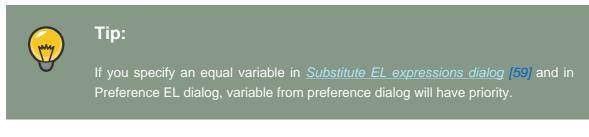
8	Preferences		×
type filter text	El Variables	⇔ - ⇔	× 👻
▶ General			
Agent Controller	Scope El Expression	Value Add	
Þ Ant		Edit	51
Data Management			=1
FreeMarker Editor		Remov	e
▶ Help			
HQL editor			
▷ Install/Update			
⊅ Java			
▶ JavaScript			
JBoss jBPM			
⊽ JBoss Tools			
Packaging Archives			
⊽ Web			
▷ Editors			
El ∨ariables			
Þ jsF			
Label Decorations			
▷ Seam			
Struts			
Verification			
JPA			
Plug-in Development			
Profiling and Logging			
▶ Run/Debug			
♦ Server			
Service Policies			
⊅ Team			
⊅ Test			
Validation			
♪ web		Restore Defaults Ap	ply
< III >			
0		OK Can	el

Figure 8.6. El Variables

Click *Add...* to set value for a new EL variable. In the appeared wizard you should specify the global values and press *Finish*.

-	Add El Reference	×
Attribute El	Value must be set.	
El Value*	Scope: Global: For all projects in workspace)
Value		j
0	Einish Cancel	

Figure 8.7. Adding a Global El Variable



8.5. JSF

Select JBoss Tools > Web > JSF to get to the JSF Project specific preferences.

		Preferences		×
type filter text		JSF	⇔ - ⇔~	•
Agent Controller	^	JSF Projects specific preferences.		
▶ Ant				
Data Management				
FreeMarker Editor				
▷ Help				
HQL editor				
▷ Install/Update				
⊅ Java				
JavaScript				
JBoss jBPM				
Packaging Archives				
⊽ Web				
▷ Editors				=
El Variables	=			
▶ JSF				
Label Decorations				
▷ Seam				
♦ Struts				
Verification				
JPA				
Plug-in Development				
Profiling and Logging				
Run/Debug				
Server				
Service Policies				
▶ Team				
⊅ Test				
Validation				
Þ web	~	< III	>	
		<u>C1</u>		
0			OK Cancel	

Figure 8.8. JSF

8.6. JSF Pages

By selecting *JBoss Tools* > *Web* > *JSF* > *JSF Pages* you can add jsf pages or remove existing ones.

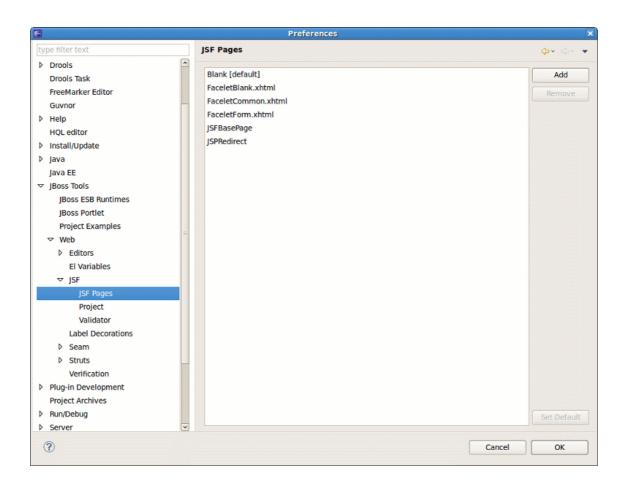


Figure 8.9. JSF Page

8.7. JSF Project

Select JBoss Tools > Web > JSF > Project to see JSF Project preferences page.

On the New Project tab you can set default values for <u>New JSF Project</u> wizard:

- Version for setting the default JSF Environment
- *Project Template* so as New JSF Project wizard shows this template as default for the chosen JSF Environment
- Project Root for specifying default location for a new JSF project

If you check Use Default Path here, this box will be also checked in the New JSF Project wizard.

• Servlet Version for setting the default Servlet version of a new JSF project

Here it's also possible to define whether to register Web Context in *server.xml* while organizing a new project or not. Check the proper box in order to do that.

		Preferences	×
type filter text Proje	ect		⇔ • ⇔• •
▷ Drools	Project Import	t Project	
Drools Task FreeMarker Editor Versi		JSF 1.2	
	ect Template:		
> Help		Use Default Path	
HOLeditor			
P Install/Update	ects Root:	/opt/workspace	<u>B</u> rowse
▷ Java Servi	let Version:	2.4	~
Java EE		Register Web Context in server.xml	
JBoss ESB Runtimes			
JBoss Portlet			
Project Examples			
 Editors 			
El Variables			
⊽ JSF			
JSF Pages			
Project			
Validator			
Label Decorations			
▷ Seam			
▷ Struts			
Verification Plug-in Development			
Project Archives			
▶ Run/Debug			
▷ Server			Restore Defaults Apply
(?)			Cancel OK
			Cancel OK

Figure 8.10. New JSF Project Preferences

On the *Import Project* tab in the JSF Project screen you can determine the default Servlet version for the *Import JSF Project* wizard and also whether to register Web Context in *server.xml* or not.

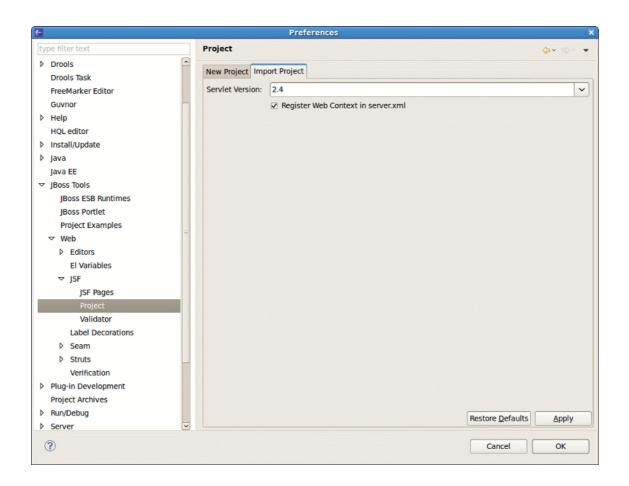


Figure 8.11. Import JSF Project Preferences

8.8. JSF Validator

Select JBoss Tools > Web > JSF > Validator page to configure the validator behavior. On this page you can change the severity level for different jsf problems which are controlled by validator.

3	Preferences	
type filter text	Validator	⇔ ⇔ →
type filter text ▷ Drools Drools Task FreeMarker Editor Guvnor ▷ Help HQL editor ▷ Install/Update ▷ Java Java EE ♡ JBoss Tools JBoss ESB Runtimes JBoss ESB Runtimes JBoss Portlet Project Examples ♡ Web ▷ Editors EI Variables ♡ JSF JSF Pages Project	 ✓ ✓ Select the severity level for the following optional JSF Validator problems: • Expression language EL Syntax Error Variable cannot be resolved: Property cannot be resolved: Unpaired Getter/Setter: ☑ Recognize "var" attributes ☑ Revalidate unresolved ELs automatically. 	Configure Project Specific Settings. Warning € Ignore € Warning € Ignore €
Validator Label Decorations Seam Struts Verification Plug-in Development Project Archives Run/Debug Server		Restore Defaults
 2000 		Cancel OK

Figure 8.12. JSF Validator

8.9. JSF Flow Diagram

Selecting *JBoss Tools > Web > Editors > JSF Flow Diagram* allows you to specify some aspects of the Diagram mode of the JSF configuration file editor.

8		Preferences		×
type filter text	JSF Flow Diagra	m		⇔ ⊷ ⇔
▶ General	SF Flow Diagram	Add View		
▶ Ant		✓ Show grid		
Data Management		-		
▷ Drools	Grid Step:	16		~
Drools Task	Link Path Font:	default,size=8,style=1		Browse
FreeMarker Editor	View Path Font:	default,size=8,style=1		Browse
Guvnor		Do not create a navigation rule for	a view that has no	
▷ Help		Switch to standard control mode for		Ŭ
HQL editor			or cursor after trans	ition is made
▶ Install/Update		Show shortcut icon		
▶ java		Show shortcut path		
▶ JavaScript				
▷ JBoss jBPM				
⊽ jBoss Tools				
JBoss Portlet				
⊽ Web				
✓ Editors				
JSF Flow Diagram				
Seam Pages Diagram				
Struts Flow Diagram				
Tiles Diagram				
Visual Page Editor				
El Variables				
▷ JSF				
Label Decorations				
▷ Seam				
▷ Struts			Restore <u>D</u> efaults	Apply
0			ОК	Cancel

Figure 8.13. JSF Flow Diagram

The first two items control the background grid for the diagram. The next two items allow you to control the appearance of the labels for views (pages) and the transitions between views. For these two items, clicking the *Change...* button allows you to assign a font with a dialog box.

The first check box determines whether a view in the diagram that doesn't have a transition connecting it to another view yet should be written to the source code as a partial navigation rule. The next check box determines whether the diagram cursor reverts immediately to the standard selection mode after it's used in the transition-drawing mode to draw a transition. Finally, the last two check boxes concern shortcuts. A shortcut is a transition that is there but isn't actually displayed in the diagram as going all the way to the target view it's connected to, in order to make the diagram clearer. With the check boxes, you can decide whether to display a small shortcut icon as part of the shortcut and also whether to display the target view as a label or not.

19		Preferences		×
type filter text	JSF Flow Diagra	m		⇔ • ⇔∘ •
▶ General	JSF Flow Diagram	Add View		
▶ Ant	Page Template:	JSFBasePage		~
Data Management				
▶ Drools	Extension:	jsp		~
Drools Task				
FreeMarker Editor				
Guvnor				
▶ Help				
HQL editor				
▶ Install/Update ▶ Java				
≥ javaScript				
JBoss jBPM				
✓ JBoss Tools				
JBoss Portlet				
⇒ Web				
✓ Editors				
JSF Flow Diagram				
Seam Pages Diagram				
Struts Flow Diagram				
Tiles Diagram				
Visual Page Editor				
El Variables				
Þ jSF				
Label Decorations				
▶ Seam				
▷ Struts			Restore <u>D</u> efaults	Apply
0			ОК	Cancel

Figure 8.14. Add View

Selecting the Add Page tab in the JSF Flow Diagram screen allows you to determine the default template and file extension for views (pages) you add directly into the diagram using a context menu or the view-adding mode of the diagram cursor.

8.10. Label Decorations

The Label Decorations page is opened from *JBoss Tools > Web > Label Decorations*.

8	Preferences	×
type filter text	Label Decorations	⇔-⇔
 Agent Controller Ant 	Text	
Data Management FreeMarker Editor	Select decorator:	<u> </u>
▷ Help HQL editor	♦ File TLD Function	=
 ▶ Install/Update ▶ Java ▶ Install/Update 	🔊 Tag 🖹 Tag File	
 ▶ JavaScript ▶ JBoss jBPM ▼ JBoss Tools 	Validator	Add Variable
Packaging Archives ↓ Web ↓ Editors	= Preview:	
El Variables ▽ JSF JSF Pages		
Project Label Decorations Seam		
 Struts Verification 		
JPA Þ Plug-in Development		
 Profiling and Logging Run/Debug 		
 Server Service Policies Team 		
Test	Restore D	efaults Apply
0	0	K Cancel

Figure 8.15. Label Decorations

On this page you can determine the format for a text output near the decoration label for different Web resources. To change the value for selected element, click *Add Variable...* button next to *Format* field. Appeared wizard will prompt you to select one from the available list.

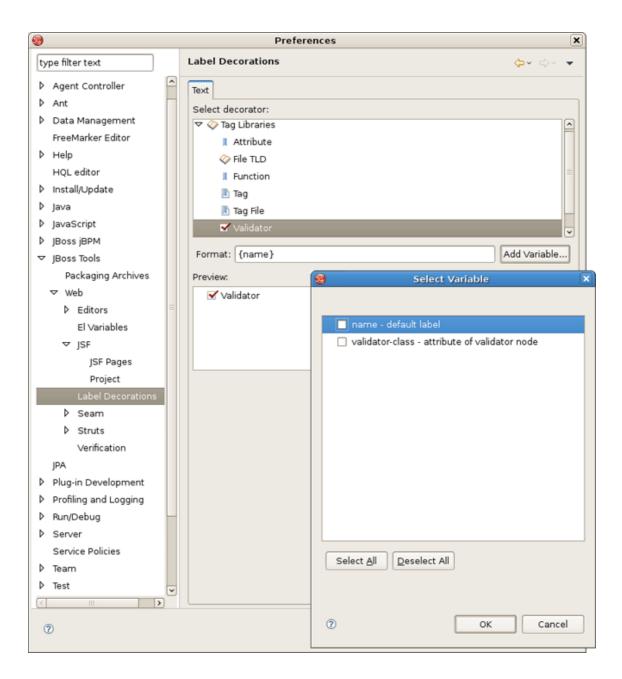


Figure 8.16. Label Decoration for Validator

8.11. Seam

The following preferences can be changed on the JBoss Tools > Web > Seam page.

On Seam screen you can add and remove Seam runtimes.

Here is what Seam preference page looks like:

			Prefe	rences			×
ty	pe filter text	5	Seam			⇔ ~ ⇔~	•
	Guvnor	^					6
Þ	Help		Name	Version	Path	Add	
	HQL editor		🗹 jboss-seam-2.0.	0.GA 2.0	/opt/jboss-seam-2.0.0.GA	Edit	
Þ	Install/Update						
Þ	Java					Bemove	
Þ	JavaScript						
Þ	JBoss jBPM						
∇	JBoss Tools						
	JBoss ESB Runtimes						
	JBoss Portlet						
	⊽ Web	_					=
	Editors						
	El Variables						
	Þ jSF						
	Label Decorations						
	Seam						
	Struts						
	Verification						
	JPA						
⊳	oXygen						
₽	Plug-in Development						
	Project Archives						
Þ	Run/Debug	~					
<							-
¢	D				ОК	Cancel	

Figure 8.17. Seam preference page

8.12. Seam Validator

The following preferences can be changed on the *JBoss Tools > Web > Seam > Validator* page.

In *Validator* panel you configure seam problems that will be processed by validator.

1	Preferences	×
type filter text	Validator	⇔ ⇒ → - -
 Agent Controller Ant Data Management FreeMarker Editor 	Select the severity level for the following optional Seam Validator problems: • Components	Configure Project Specific Settings
 Descript Descript	Duplicate component name: Stateful component does not contain @Remove metho Stateful component does not contain @Destroy metho Stateful component has wrong scope: Component class name cannot be resolved to a type: Component class does not contain setter for property: • Entities	
 ▷ Editors El Variables JSF Label Decorations ✓ Seam Validator Validator Struts Verification JPA Plug-in Development Profiling and Logging Run/Debug 	 Component life-cycle methods: Factories Bijections Context variables Expression language Project Settings 	
 Server Service Policies Team Test Validation Web IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Restore Defaults Apply

Figure 8.18. Seam Validator

8.13. Seam Pages Diagram

In order to customize the layout of the Diagram used for editing and composing page.xml file in Graphical mode of Seam Pages Editor you can go to Window > Preferences > JBoss Tools > Web > Seam > Editors > Seam Pages Diagram.

3		Preferences	
type filter text	Seam Pages D	iagram	¢~ ⇔~ ~
▶ General		✓ Show grid	
▶ Ant	Grid Step:	16	~
Data Management			
Drools	Link Path Font:	default,size=8,style=1	<u>B</u> rowse
Drools Task	View Path Font:	default,size=8,style=1	<u>B</u> rowse
FreeMarker Editor		Switch to standard control mode for cursor aft	er transition is made
Guvnor		Show shortcut icon	
▷ Help		Show shortcut path	
HQL editor			
Install/Update			
▶ Java			
JavaScript			
JBoss jBPM			
JBoss Portlet			
∀ Web			
JSF Flow Diagram			
Seam Pages Diagram			
Struts Flow Diagram			
Tiles Diagram			
Visual Page Editor			
El Variables			
Þ js⊧			
Label Decorations			
> Seam			
Struts			
Verification			
JPA		Restore D	efaults Apply
•••••	-		
0		ОК	Cancel

Figure 8.19. Preferences of Seam Pages Diagram

8.14. Struts

By selecting *JBoss Tools > Web > Struts* you can configure Struts projects specific preferences.

		Preferences	X
type filter text		Struts	⇔ ⇔ →
Agent Controller	^	Struts Projects specific preferences.	
▶ Ant			
Data Management			
FreeMarker Editor			
▶ Help			
HQL editor			
Install/Update			
⊅ Java			
▶ JavaScript			
JBoss jBPM			
	=		
Packaging Archives			
∀ Web			
Editors			
El Variables			
▷ JSF			
Label Decorations			
⊽ Seam			
Validator			
Struts			
Verification			
јра			
Plug-in Development			
Profiling and Logging			
▶ Run/Debug			
♦ Server	~		
< III	>		
0			OK Cancel
U			

Figure 8.20. Struts projects preferences Page.

8.15. Struts Automation

On *Automation* panel you can modify default text for the Title Struts plug-in element, the Validator Struts plug-in element, and error message resource files.

8	Preferences X
type filter text	Automation 🔶 🗸 🐟 👻
type filter text ▷ Install/Update ▷ Java ▷ JavaScript ▷ JBoss jBPM ▽ JBoss Tools Packaging Archives ▽ Web ▷ Editors El Variables ▷ JSF Label Decorations ▽ Seam Validator ▽ Struts ▷ Automation Customization ▷ Project Struts Pages Verification JPA ▷ Plug-in Development ▷ Profiling and Logging ▷ Server Service Policies ▷ Team	Here you can modify default text for the Tiles Struts plug-in element, the Validator Struts plug-in element, and error message resource files.
< III >	
0	OK Cancel

Figure 8.21. Struts Automatic

8.16. Plug-in Insets

By selecting *Web > Struts > Automation > Plug-in Insets* on tab Tiles you can define a default text for tiles plugin.

1	Preferences	×
type filter text	Plug-in Insets	⇔ ⊷ ⇔
 Install/Update Java JavaScript JBoss jBPM JBoss Tools Packaging Archives ✓ Web Editors El Variables JSF Label Decorations ✓ Seam Validator ✓ Struts ✓ Automation Plug-in Insets Customization Project Struts Pages Verification JPA Plug-in Development 	Tiles Validators Text: <property property="definitions-config" value="NVEB-INF/tiles-defs.xml"></property> <set-property property="moduleAware" value="true"></set-property> <plug-in></plug-in>	
 Profiling and Logging Run/Debug 		
▶ Server	Restore Default:	s <u>Apply</u>
() ()	ОК	Cancel

Figure 8.22. Plug-in Insets

The same is done but for validator plugin on the tab Validators.

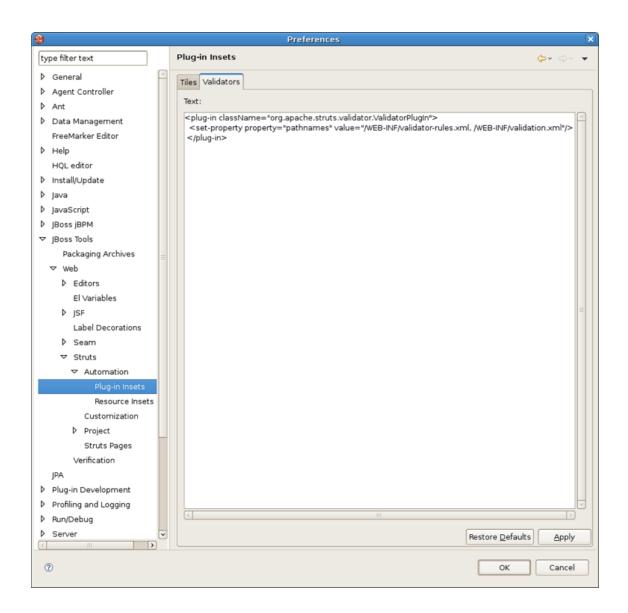


Figure 8.23. Plug-in Insets of Validators

8.17. Resource Insets

To see Resource Insets preference page select JBoss Tools > Web > Strats > Automation > Resource Insets .

On Resource Insets panel you determine default error messages for error resource files.

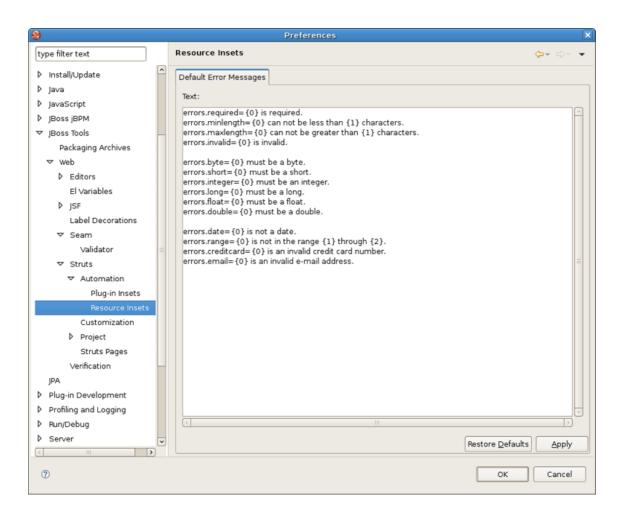


Figure 8.24. Resource Insets

8.18. Struts Customization

The following preferences can be changed on the *JBoss Tools* > *Web* > *Struts* > *Customization* page.

In the Customization screen you configure Link Recognizer for Struts tags.

type filter text	Customization				⇔ ⊷ ⇔∽
▷ Install/Update	Link Recognizer				
Þ Java	Tag	Attribute	Refer to	Link Type	Add
JavaScript	html:link	action	action	Struts	Edit
JBoss jBPM	html:link	page	page	Struts	Edit
⊄ JBoss Tools	html:link	forward	forward	Struts	Delete
Packaging Archives	html:frame	action	action	Struts	
⊽ Web	html:frame	page	page	Struts	
Editors	html:frame	forward	forward	Struts	
El Variables	html:form	action	action	Struts	
Þ js⊧	logic:forward	name	forward	Struts	
Label Decorations	logic:redirect	forward	forward	Struts	
⊽ Seam	, a gran a star				
Validator	=				
Plug-in Insets					
Resource Insets					
Customization					
Project					
Struts Pages					
Verification					
JPA					
Plug-in Development					
Profiling and Logging					
▶ Run/Debug					
▶ Server	<	11		1	2
				Restore <u>D</u> efault	s <u>A</u> pply

Figure 8.25. Struts Customization

8.19. Struts Project

You can change the following preferences on the *JBoss Tools > Web > Struts > Project* preference page:

On *Project* panel you define a template for a new Struts created project: servlet version, page template and so on.

@	Pr	eferences	
type filter text	Project		⇔
Guvnor Help	New Project Impo	rt Project	
HQL editor	Struts Version:	Struts 1.1	\$
▶ Install/Update	Project Template:	Blank	0
▶ Java		🗹 Use Default Path	
▷ JavaScript ▷ JBoss jBPM	Projects Root:	/opt/workspace	Browse
✓ JBoss Tools	Servlet Version:	2.3	~
JBoss ESB Runtimes		Register Web Context in server.xml	
jBoss Portlet			
V Editors			
El Variables			
▷ JSF			
Label Decorations			
✓ Struts			
Automation			
Customization			
Project			
Struts Pages Verification			
JPA 🗸		Restore Default	a Carahi
		restore <u>D</u> efault	s <u>Apply</u>
0		ОК	Cancel

Figure 8.26. Struts Project

Selecting the Import Project tab in the Struts Project screen allows you to determine the default servlet version and whether to register Web Context in server.xml.

8	Preferences	×
type filter text	Project	⇔ ⇔
 Install/Update Java JavaScript IRocs iPDM 	New Project Import Project Servlet Version: 2.3	~
 ▷ JBoss jBPM ▽ JBoss Tools Packaging Archives ▽ Web ▷ Editors	Register Web Context in server.xml	
	Restore Defa	ults Apply
0	ок	Cancel

Figure 8.27. Import Struts Pages

8.20. Struts Support

The following preferences can be changed on the *JBoss Tools > Web > Struts > Project > Struts Support* page.

Select Struts Support screen if you want to configure Struts versions support settings.

Chapter 8. JBoss Tools Preferences

8	Preferences	×
type filter text	Struts Support	⇔ • ⇔∘ •
P Install/Opdate	Struts Support 1.2 Struts Support 1.1 Struts Support 1.0	
▷ Java ▷ JavaScript	Servlet Class: org.apache.struts.action.ActionServlet	Browse
JBoss jBPM	URL Pattern: *.do	
✓ IBoss Tools	ORL Pattern: +.do	
Packaging Archives	TLD Files: struts-bean.tld;struts-logic.tld;struts-html.tld	Browse
⊽ Web		
Editors		
El Variables		
▷ JSF		
Label Decorations		
⊽ Seam		
Validator	=	
Plug-in Insets		
Resource Insets		
Customization		
✓ Project		
Struts Support		
Struts Pages		
Verification		
JPA Plug-in Development		
 Plug-in Development Profiling and Logging 		
 Profiling and Logging Run/Debug 		
N Canada	Restore	Defaults Apply
0		OK Cancel

Figure 8.28. Struts Support

8.21. Struts Pages

You can change the following preferences on the JBoss Tools > Web > Struts > Struts Pages preference page.

On Struts Pages panel you can add or remove Struts pages.

8	Preferences	×
type filter text	Struts Pages	⇔ ⇔ - -
 Install/Update Java JavaScript JBoss jBPM JBoss Tools Packaging Archives Veb Editors El ∨ariables JSF Label Decorations Seam Struts Automation Plug-in Insets Resource Insets Customization Project Verification JPA Plug-in Development Profiling and Logging Run/Debug Server Service Policies 	Ettics Fuges Blank [default] FaceletBlank.xhtml FaceletCommon.xhtml FaceletForm.xhtml StrutsForm	Add Remove
()	ок	Cancel

Figure 8.29. Struts Pages

8.22. Struts Flow Diagram

Similarly to the JSF Flow Diagram screen, selecting *JBoss Tools > Web > Editor > Struts Flow Diagram* page allows you to specify aspects of the Diagram mode of the Struts configuration file editor. The Struts Flow Diagram screen adds an option to hide the Diagram tab and labeling settings for additional artifacts.

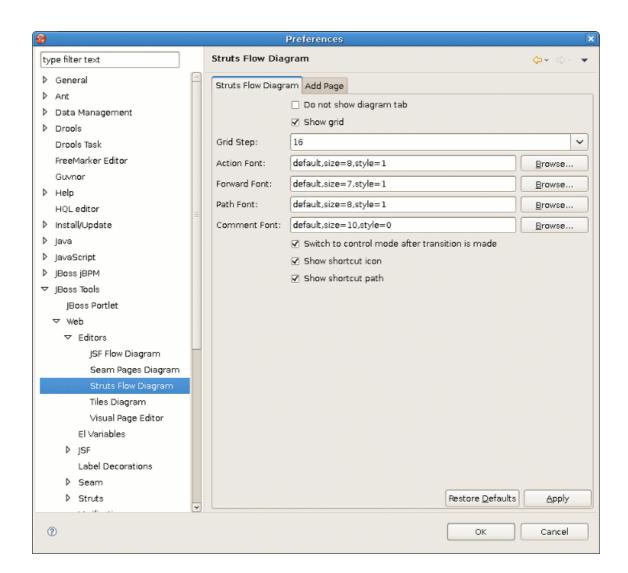


Figure 8.30. Struts Flow Diagram

Selecting the Add Page tab in the Struts Flow Diagram screen allows you to determine the default template and file extension for views (pages) you add directly into the diagram using a context menu or the view-adding mode of the diagram cursor.

3		Preferences	×
type filter text	Struts Flow Dia	gram	ູ ເພື່າ ເພື່ອ 🗸 🗸
▶ General	Struts Flow Diagr	am Add Page	
 Ant Data Management 	Page Template:	StrutsForm	
 Drools 	Extension:	jsp	
Drools Task	EXLETISION.	lish	`
FreeMarker Editor			
Guvnor			
▷ Help			
HQL editor			
▶ Install/Update			
⊅ java			
▶ JavaScript			
▶ JBoss jBPM			
⊽ JBass Tools			
JBoss Portlet			
⊽ Web			
✓ Editors			
JSF Flow Diagram			
Seam Pages Diagram			
Struts Flow Diagram			
Tiles Diagram			
Visual Page Editor			
El Variables			
▶ JSF			
Label Decorations			
Seam			
Struts Verification		Resto	re <u>D</u> efaults <u>A</u> pply
Verification			
0			OK Cancel

Figure 8.31. Adding Page

8.23. Tiles Diagram

JBoss Tools > Web > Editors > Title Diagram screen allows you control some settings for the placement of Tiles definitions in the Diagram mode of the JBoss Tools Tiles editor.

3	Prefe	31.3112.3.4	 ******
type filter text	Tiles Diagram		¢ ⊅ < <> <
▶ General	Tiles Diagram		
 Ant Data Management 	Vertical Spacing:	default(20)	 ·····
Drools Drools Task	Horizontal Spacing: Definition Name Font:	default(185) default,size=7,style=1	 Browse
FreeMarker Editor Guvnor Melp		☑ Layout Animation	
HQL editor > Install/Update > Java > JavaScript			
 JBoss jBPM JBoss Tools JBoss Portlet Web Editors 			

Figure 8.32. Title Diagram

8.24. Verification

The following preferences can be changed on the JBoss Tools > Web > Verification page.

On Rules Configuration tab of *Verification* panel you can determine JSF and Struts rules.

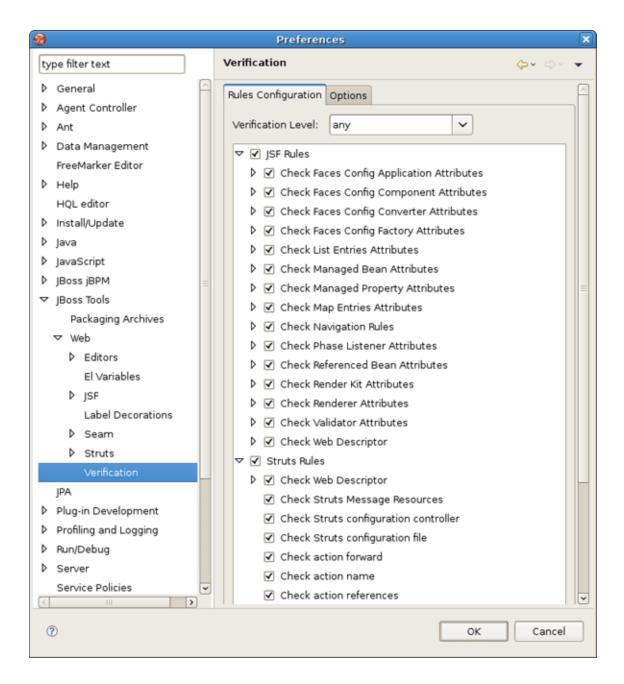


Figure 8.33. Verification

On Options tab you can define a limit for the reported errors number.

19	Preferences	×	
type filter text	type filter text Verification		
▶ General	Rules Configuration Options		
Agent Controller			
▶ Ant	Reported Errors Number Limit: unlimited	~	
Data Management			
FreeMarker Editor			
▶ Help			
HQL editor			
▷ Install/Update			
⊅ Java			
▶ JavaScript			
JBoss jBPM			
⊽ JBoss Tools			
Packaging Archives			
⊽ Web			
Editors			
El Variables			
▷ JSF			
Label Decorations			
▷ Seam			
Struts	_		
Verification			
JPA			
Plug-in Development			
Profiling and Logging			
▶ Run/Debug			
♦ Server	×		
		×	
0	ок	Cancel	
	UK		

Figure 8.34. Options of Verification

8.25. Server Preferences

Preferences for JBoss Server and other servers can be changed on the Server page.

-			Preferences		×
typ	pe filter text		Server	⇔ - ⇔-	-
Þ	General	-	Show Servers view when server state changes		
⊳	Ant				
⊳	Data Management				
⊳	Drools				
	Drools Task				
	FreeMarker Editor				
	Guvnor				
₽	Help				
	HQL editor				
₽	Install/Update				
₽	Java				
₽	JavaScript				
₽	JBoss jBPM				
₽	JBoss Tools	=			
	JPA				
⊳	Plug-in Development				
	Project Archives				
⊳	Remote Systems				
⊳	Run/Debug				
~	Server				
	Audio				
	Launching				
	Runtime Environm				
	Service Policies				
₽	Tasks				
⊳	Team				
	Usage Data Collecto				
	Validation	1000			
₽		~	Restore Defaults	Apply	
<					
(?)		ОК	Cancel	

Figure 8.35. Server Preferences

On the *Server > Runtime Environments* page you can add new or modify already defined Server Runtime.

۲			Preferences	1	×
ty	type filter text Server Runtime Environments Control				
Þ	General Add, remove, or edit server runtime environments.				
Þ	Ant		Server runtime environm	nents:	
₽	Data Management		Name	Туре	Add
Þ	Drools		JBoss 4.2 Runtime	JBoss 4.2 Runtime	
	Drools Task				Edit
	FreeMarker Editor				Bemove
	Guvnor				
Þ	Help				Search
	HQL editor				
Þ	Install/Update				
Þ	Java				
Þ	JavaScript				
Þ	JBoss jBPM				
Þ	JBoss Tools				
	JPA				
Þ	Plug-in Development				
	Project Archives				
	Remote Systems				
Þ	Run/Debug				
~	Server				
	Audio				
_	Launching				
	Runtime Environment				
	Service Policies				
Þ	Tasks				
	Team				
Þ	Usage Data Collector				
-		~	L		
<	>				
C	D			ОК	Cancel

Figure 8.36. Runtime Environments

Server Launching preferences can be configured on the Server > Launching page.

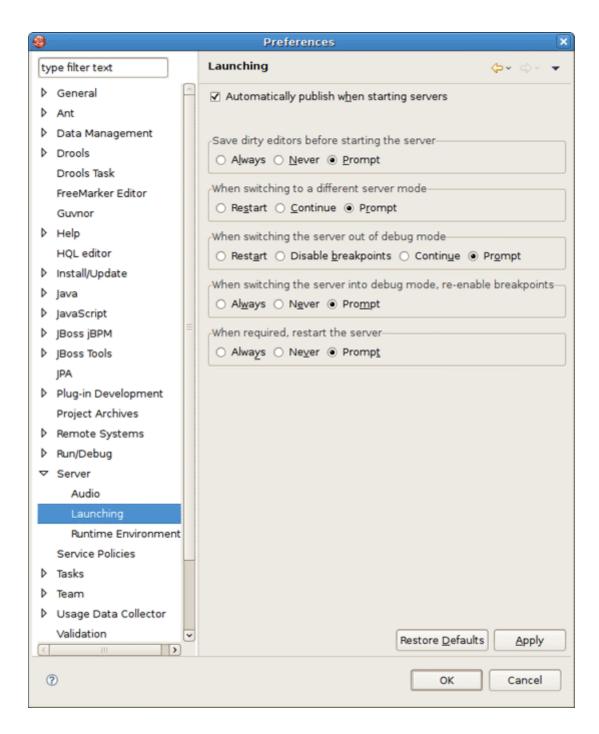


Figure 8.37. Server Launching Preferences

Going to Server > Audio you can enable/disable the sound notification for different Server states and actions and set the sound volume as well.

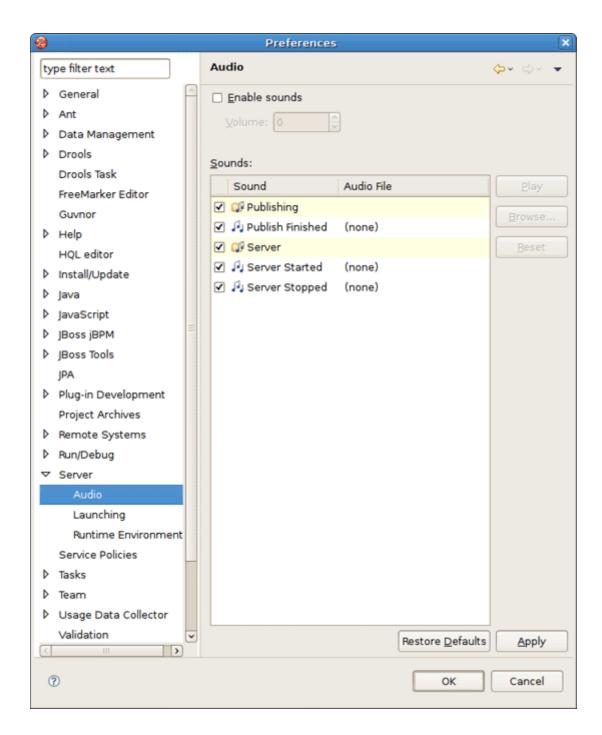


Figure 8.38. Sound Notification Adjustment

8.26. XDoclet

The preferences for XDoclet can be changed if you click XDoclet on the left navigation bar.

On the *XDoclet* screen it's possible to enable/disable XDoclet builder by checking proper box, specify XDoclet home and determine XDoclet module version as well.

8	Preferences 🛛 🗙
type filter text	🔞 Missing library: xdoclet-1.2irectory for XDoclet. 1.2.1 🏻 😓 🗸 🕁 🚽
 type filter text Drools Preferences FreeMarker Editor Help HQL editor Install/Update Java JavaScript JBoss jBPM JBoss Tools JPA oXygen Plug-in Development Project Archives Run/Debug Server Audio JBoss Server View Launching Runtime Environmer Service Policies Team Validation 	🔞 Missing library: xdoclet-1.2irectory for XDoclet. 1.2.1 🔅 🗸 🖒 🗸 🔫
Validation Veb	
Web Services	
XDoclet	
▶ XML	
	Restore Defaults Apply
0	OK Cancel

Figure 8.39. XDoclet Runtime Preferences Page

Switch to *XDoclet* > *ejbdoclet* page in order to adjust settings for EJB-specific sub-tasks.

	Preferences	
type filter text	ejbdoclet	⇔ ⊷ ⇔∽ ⊸
▶ Help	Tasks	
HQL editor	include task	Edit
▷ Install/Update	✓ DeploymentDescriptor	
⊅ Java	✓ RemoteInterface	
JavaScript	✓ HomeInterface	
JBoss jBPM	✓ LocalInterface	
JBoss Tools	✓ LocalHomeInterface	
JPA	✓ UtilObject	
▷ oXygen	✓ DataObject	
Plug-in Development	✓ Dao	
Project Archives	✓ valueobject	
Run/Debug	✓ Entitypk	
▼ Server	Entitycmp	
Audio	✓ Entitybmp	
JBoss Server View	✓ Session	
Launching	✓ Mdb	
Runtime Environmer	U Weblogic	
Service Policies	JBoss	
Team	JOnAS	
Validation	WebSphere	
▷ Web		
Web Services		
▼ XDoclet		
ejbdoclet		
webdoclet		
▶ XML	Restore Defa	aults Apply
0	OK	Cancel

Figure 8.40. ejbdoclet

To configure settings for various web-specific XDoclet sub-tasks, follow to XDoclet > webdoclet page.

-	2222			Preferences	×
ty	pe filter text	w	ebdocle	et	⇔ ⊷ ⇔∼ ⊸
Þ	Help	^	Tasks —		
	HQL editor		include	task	Edit
⊳	Install/Update			DeploymentDescriptor	
⊳	Java			WebLogic	
⊳	JavaScript			JBoss	
⊳	JBoss jBPM			JOnAS	
⊳	JBoss Tools			Websphere	
	JPA		Ľ	websphere	
⊳	oXygen				
	Plug-in Development				
	Project Archives				
⊳	Run/Debug				
▽	Server				
	Audio				
	JBoss Server View				
	Launching				
	Runtime Environmer				
	Service Policies				
₽	Team				
	Validation				
⊳	Web				
₽	Web Services				
~	XDoclet				
	ejbdoclet				
	webdoclet				
⊳	XML	~		Restore Defau	ults Apply
<				hestore <u>D</u> erat	
G	D			ОК	Cancel

Figure 8.41. webdoclet

Context Menu Preferences and Options

To adjust the project specific preferences, you should bring the context menu for your project and select the *Preferences* option. More details on what adjustments you can perform in the **Preferences** screen, see in the <u>"JBoss Tools Preferences"</u> chapter.

Under the *JBoss Tools* option in the context menu there are also several actions provided by JBDS:

- Add/Remove Struts Capabilities
- Add/Remove JSF Capabilities
- Add Custom Capabilities

9.1. Add/Remove Struts Capabilities

Please, for details refer to the Struts Tools Reference Guide.

9.2. Add/Remove JSF Capabilities

Please, for details refer to the <u>JSF Tools Reference Guide</u>.

9.3. Add Custom Capabilities

You can add custom capabilities to any JSF, Struts or Seam project made within JBDS, i.e. add a support of additional frameworks built on top of JSF, such as

- ADF
- Facelets
- JBoss Rich Faces (versions 3.1, 3.2, 3.3)

When the option is selected, the Add Custom Capabilities dialog appears. You should check the needed modules and press *Finish.*

🔄 🛛 🕹 Add Custom Capa	abilities 🛛 🗙
Select Custom Capabilities	I
 ADF Facelets 	
 JBoss RichFaces 3.1 JBoss RichFaces 3.2 JBoss RichFaces 3.3 	
	Finish Cancel

Figure 9.1. Adding Custom Capabilities

The next page displays all the updates that have been made to the project.

Add Custom Capabilities 🗙
Added Custom Capabilities
The following updates have been made to the project.
JBoss RichFaces 3.3: Added "Ajax4jsf Filter" to /WEB-INF/web.xml
JBoss RichFaces 3.3: Added "Ajax4jsf Filter mapping" to /WEB-INF/web.xml
JBoss RichFaces 3.3: Added "Skin Parameter" to /WEB-INF/web.xml
JBoss RichFaces 3.3: Added richfaces-api-3.3.0.GA.jar to WEB-INF/lib
JBoss RichFaces 3.3: Added richfaces-impl-3.3.0.GA.jar to WEB-INF/lib
JBoss RichFaces 3.3: Added richfaces-ui-3.3.0.GA.jar to WEB-INF/lib
Close

Figure 9.2. Updates Displayed

FAQ

10.1. What should I do if Visual Page Editor does not start under Linux?

The Visual Page Editor requires the library libstdc++.so.5. This library is contained in the compatlibstdc++-33.i386 package.

• To install this package on Fedora Core or Red Hat Enterprise Linux run the following command:

yum install compat-libstdc++-33.i386

• On any other rpm based distributions download libstdc++.so.5 and run the following command:

rpm -Uvh compat-libstdc++-33.i386

• On Debian based distributives run the following command:

apt-get install compat-libstdc++-33.i386

In case you have the library installed and you still have issue with starting the Visual Page Editor then close all browser views/editors and leave one Visual Page Editor open and restart eclipse. This should force a load of the right XULRunner viewer.

lf it doesn't help and you use Fedora Core Linux and Eclipse Version: 3.4.1,the issue can be produced because libswt-xulrunnergtk-3449.so file doesn't present in eclipse-swt-3.4.1-5.fc10.x86_64.rpm/eclipse/plugins/ org.eclipse.swt.gtk.linux.x86_64_3.4.1.v3449c.jar.To add this file to eclipse you should:

- Decompress eclipse/plugins/org.eclipse.swt.gtk.linux.x86_3.4.1.v3449c.jar form eclipse-SDK-3.4.1-linux-gtk-x86_64.tar.gz
- Copy libswt-xulrunner-gtk-3449.so file to your Fedora Eclipse location.
- Open the file eclipse.ini,which can be found in your Fedora Eclipse location and add the following line:

-Dswt.library.path=/usr/lib/eclipse

,where /usr/lib/eclipse is the path to your eclipse folder.

10.2. How do I change the auto-formating preferences for the Visual Page Editor?

JBoss HTML/JSP editor uses basic eclipse HTML formatter to format files. So if you want to change preferences of formatter for the Visual Page Editor, you should change it for eclipse html editor (open *Window > Preferences*, then choose *Web > HTML Files > Editor*).

Conclusion

On the whole, this document should guide you to those parts of JBoss Tools which you specifically need to develop Web Applications. It covers different aspects of visual components such as editors, views, etc. for browsing, representing and editing web resources you are working with.

If there's anything we didn't cover or you can't figure out, please feel free to visit our <u>JBoss</u> <u>Developer Studio Users Forum</u> or <u>JBoss Tools Users Forum</u> to ask questions. There we are also looking for your suggestions and comments.