

Frequently Asked Questions

Based on RichFaces Users Forum

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FAQ

1.1. Where could I find additional information on RichFaces?

Most important links for RichFaces can be found [here](http://jboss.com/index.html?module=bb&op=viewtopic&t=104575) [http://jboss.com/index.html?module=bb&op=viewtopic&t=104575].

1.2. Where are binary/source distribution for RichFaces?

There are two places where you can find binary/source distribution:

- JBoss RichFaces Downloads area which can be found [here](http://labs.jboss.com/jbossrichfaces/downloads/) [http://labs.jboss.com/jbossrichfaces/downloads/]. Source distribution you can see in the `richfaces-ui-3.3.0-src.zip`. Binary stored in `richfaces-ui-3.3.0-bin.zip`
- If you use Maven, Maven knows the place where all distributions are stored. Actual links to the Maven repository can be found [here](http://jboss.com/index.html?module=bb&op=viewtopic&t=104575) [http://jboss.com/index.html?module=bb&op=viewtopic&t=104575]

1.3. How to build RichFaces snapshot manually?

This [wiki article](http://labs.jboss.com/wiki/HowToBuildRichFacesSnapshotManually) [http://labs.jboss.com/wiki/HowToBuildRichFacesSnapshotManually] helps you to find an answer.

1.4. How to configure Maven for RichFaces

- Download and install Maven if you have not it yet installed. Follow the instruction at <http://maven.apache.org/download.html> [http://maven.apache.org/download.html].
- Open `<Maven-Root>/conf/settings.xml` file to edit

Add into the `<profile>` section:

```
<id>RichFaces</id>
<repositories>
  <repository>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>false</enabled>
```

```
<updatePolicy>never</updatePolicy>
</snapshots>
<id>repository.jboss.com</id>
<name>Jboss Repository for Maven</name>
<url>
  http://repository.jboss.com/maven2/
</url>
<layout>default</layout>
</repository>
<repository>
  <releases>
    <enabled>false</enabled>
  </releases>
  <snapshots>
    <enabled>true</enabled>
    <updatePolicy>always</updatePolicy>
  </snapshots>
  <id>maven2-snapshots.jboss.com</id>
  <name>Jboss Repository for Maven Snapshots</name>
  <url>http://snapshots.jboss.com/</url>
  <layout>default</layout>
</repository>
</repositories>
<pluginRepositories>
  <pluginRepository>
    <id>maven2-snapshots.jboss.com</id>
    <name>Jboss Repository for Maven Snapshots</name>
    <url>http://snapshots.jboss.com/</url>
  <releases>
    <enabled>false</enabled>
  </releases>
  <snapshots>
    <enabled>true</enabled>
    <updatePolicy>always</updatePolicy>
  </snapshots>
</pluginRepository>
<pluginRepository>
  <releases>
    <enabled>true</enabled>
  </releases>
  <snapshots>
    <enabled>false</enabled>
    <updatePolicy>never</updatePolicy>
  </snapshots>
```



```
<id>repository.jboss.com</id>
<name>Jboss Repository for Maven</name>
<url>
  http://repository.jboss.com/maven2/
</url>
<layout>default</layout>
</pluginRepository>
</pluginRepositories>
```

Add into the `<activeProfiles>` section:

```
<activeProfile>RichFaces</activeProfile>
```

1.5. What is the structure of RichFaces SVN repository?

RichFaces repository structure overview can be found [in this Wiki article](http://labs.jboss.com/wiki/RichFacesRepositoryStructureOverview) [http://labs.jboss.com/wiki/RichFacesRepositoryStructureOverview].

1.6. How to build richfaces-samples applications?

How to build and how to use richfaces-samples applications in Eclipse is described [in this Wiki article](http://labs.jboss.com/wiki/RichFacesRepositoryStructureOverview) [http://labs.jboss.com/wiki/RichFacesRepositoryStructureOverview].

1.7. Where could I find a demo for RichFaces components?

Online demo Web applications that show the most important functionality of RichFaces components are available [on this LiveDemo page](http://livedemo.exadel.com/richfaces-demo/) [http://livedemo.exadel.com/richfaces-demo/].

War file of a nightly build can be found [here](http://maven.exadel.com/org/richfaces/samples/richfaces-demo/3.1.0-SNAPSHOT/) [http://maven.exadel.com/org/richfaces/samples/richfaces-demo/3.1.0-SNAPSHOT/].

Source Code (SVN) can be found [here](http://anonsvn.jboss.org/repos/richfaces/trunk/samples/richfaces-demo/) [http://anonsvn.jboss.org/repos/richfaces/trunk/samples/richfaces-demo/].

See also [how to prevent richfaces-demo deployment failed](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=113454) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=113454].

1.8. How to use Skinnability?

[Here](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111143) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111143] is an article that explains the Skinnability basics.

For information you can also see discussion about this problem on the [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=103772) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=103772]

Also, the effect of predefined skins on the application whole look-and-feel could be seen [on this LiveDemo page](http://livedemo.exadel.com/richfaces-demo/) [http://livedemo.exadel.com/richfaces-demo/].

1.9. Why does a problem with prototypes in RichFaces 3.1.0 happen? The Prototype.Browser() function can't be found.

RichFaces 3.1.0 has been released with the latest Prototype 1.5.1.1. The conflict happens because on your page an older version of prototypes that can be added from Tomahawk 1.1.6 is used. See the solution for the problem [here](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=118526&postdays=0&postorder=asc&start=0). [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=118526&postdays=0&postorder=asc&start=0]

1.10. Why RichFaces library contains <rich:dataTable> component, though there is the standard <h:dataTable>?

The article about **<rich:dataTable>** flexibility can be found [in this Wiki article](http://labs.jboss.com/wiki/RichFacesArticleDataTable) [http://labs.jboss.com/wiki/RichFacesArticleDataTable].

Source code (SVN) could be found [here](http://anonsvn.jboss.org/repos/richfaces/trunk/samples/richfaces-art-datatable/) [http://anonsvn.jboss.org/repos/richfaces/trunk/samples/richfaces-art-datatable/].

Online demo for a Web application is available [on this page](http://livedemo.exadel.com/richfaces-art-datatable/) [http://livedemo.exadel.com/richfaces-art-datatable/].

1.11. How to organize wizards using the <rich:modalPanel> component?

It's necessary to put **<a4j:include>** inside the **<rich:modalPanel>** and perform navigation inside it, as it's shown in the example below:

Example:

```
...
<f:verbatim>
    <a href="javascript:Richfaces.showModalPanel('_panel',{left:'auto',
top:'auto'})">Show Modal Panel</a>
</f:verbatim>
<rich:modalPanel id="_panel">
    <a4j:outputPanel id="view" >
        <a4j:include viewId="/pages/included1.xhtml"></a4j:include>
    </a4j:outputPanel>
```

```
</rich:modalPanel>
...

faces-config.xml:
...

    <navigation-rule>
        <from-view-id>/pages/included1.xhtml</from-view-id>
        <navigation-case>
            <from-outcome>included2</from-outcome>
            <to-view-id>/pages/included2.xhtml</to-view-id>
        </navigation-case>
    </navigation-rule>
...

included1.xhtml:
...
    <h:form>
        <h:outputText value="Go to the step 2"/>
        <a4j:commandButton value="next" action="included2" reRender="view"/>
    </h:form>
...

included2.xhtml

...
    <h:form>
        <h:outputText value="Close window"/>
        <h:commandButton type="button" value="Close" onclick="javascript:Richfaces.hideModalPanel('_panel')"/>
    </h:form>
...
```

The discussion about **<a4j:include>** and navigation rules can be found on the [Ajax Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4062036#4062036) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4062036#4062036].

1.12. How to prevent modalPanel from closing when the validation inside fails?

Examples of validation in **<rich:modalPanel>** could be found in the [Wiki article](http://labs.jboss.com/wiki/ModalPanelValidation) [http://labs.jboss.com/wiki/ModalPanelValidation] and on the [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4061517) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4061517].

1.13. Why when I use suggestionbox inside the modalPanel content the popup suggestion list doesn't show since it is behind the modalPanel.

To solve this problem you should use the latest versions of RichFaces.

Most important links for RichFaces can be found [here](http://jboss.com/index.html?module=bb&op=viewtopic&t=104575) [http://jboss.com/index.html?module=bb&op=viewtopic&t=104575].

1.14. Does RichFaces work with facelets?

Main [demo](http://livedemo.exadel.com/richfaces-demo/) [http://livedemo.exadel.com/richfaces-demo/] of RichFaces is a facelets based application. Full Facelets support is one of the main features. Hence, the answer is yes.

1.15. Is it possible to create dynamic menu using <rich:dropDownMenu> component?

<rich:dropDownMenu> is a standard JSF component. Thus, creation of the menu dynamically from the Java Script code is the same as for any other jsf component.

For more information follow the [link](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=110983) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=110983].

1.16. Is it possible to customize the look of datascroller (the forward/back buttons) and replace them with an images?

The answer is yes.

Component provides two controllers groups for switching:

- Page numbers for switching onto a particular page
- The controls of fast switching: "first", "last", "next", "previous", "fastforward", "fastrewind"

The controls of fast switching are created adding the facets component with the corresponding name:

Example:

```
...
<rich:datascroller for="table" maxPages="10">
  <f:facet name="first">
    <h:outputText value="First"/>
  </f:facet>
```

```

<f:facet name="last">
    <h:outputText value="Last"/>
</f:facet>
</rich:datascroller>
...

```

There are also facets used to create the disabled states: *"first_disabled"* , *"last_disabled"* , *"next_disabled"* , *"previous_disabled"* , *"fastforward_disabled"* , *"fastrewind_disabled"* .

1.17. How to place simple links inside menu?

If you want to navigate outside, when application uses an external URL, you should use the following approach:

Example:

```

...
<rich:dropDownMenu>
...
    <rich:menuItem submitMode="none"
        onclick="document.location.href='http://labs.jboss.com/jbossrichfaces/'">
        <h:outputLink value="http://labs.jboss.com/jbossrichfaces/">
            <h:outputText value="RichFaces Home Page"></h:outputText>
        </h:outputLink>
    </rich:menuItem>
...
</rich:dropDownMenu>
...

```

Also online demo **<rich:dropDownMenu>** component is available [here](http://livedemo.exadel.com/richfaces-demo/richfaces/dropDownMenu.jsf) [http://livedemo.exadel.com/richfaces-demo/richfaces/dropDownMenu.jsf].

1.18. Can I use dropDownMenu as context menu?

The **<rich:dropDownMenu>** is designed keeping in mind that it should not be used for a contextMenu purpose. We have a **<rich:contextMenu>** component in the TODO list. However, it is not schedule for the nearest versions.

1.19. How to pass own parameters during a modalPanel opening or closing?

You can pass your parameters during modalPanel opening or closing. This passing could be performed in the following way:

Example:

```
Richfaces.showModalPanel('panelId', {left: auto}, {param1: value1});
```

Thus, except the standard modalPanel parameters you can pass any of your own parameters.

1.20. How to add a simple link to the tree node?

Simple code is placed below:

Example:

```
...
    <rich:tree ...>
        ...
        <rich:treeNode submitMode="none"
            onclick="document.location.href='http://labs.jboss.com/jbossrichfaces/'">
            <h:outputLink value="http://labs.jboss.com/jbossrichfaces/">
                <h:outputText value="RichFaces Home Page"></h:outputText>
            </h:outputLink>
        </rich:treeNode>
        ...
    </rich:tree ...>
    ...
```

1.21. Is it possible to place tabs upright in the tabPanel?

It's not possible to place tabs upright in the tabPanel. For this purpose use togglePanel. Toggle controls can be placed anywhere in the layout.

1.22. How to get a commandButton working within the modalPanel?

Simple code is placed below:

Example:

```
...
    <rich:modalPanel>
```

```

    <f:facet name="header">
        <h:outputText value="Test" />
    </f:facet>
    <f:facet name="controls">

<h:commandLink value="Close" style="cursor:pointer" onclick="Richfaces.hideModalPanel('mp')"/
>

    </f:facet>
    <h:form>
        <t:commandButton value="Test" action="#{TESTCONTROLLER.test}" />
    </h:form>
</rich:modalPanel>

...

```

**Note:**

Two rules are important for modalPanel:

- modalPanel must have its own form if it has form elements (input or/and command components) inside (as it was shown in the example above)
- modalPanel must not be included into the form (on any level up) if it has the form inside.

1.23. How to define the currently selected tab?

Simple code is placed below:

Example:

```

...
<rich:tabPanel selectedTab="t2">
    <rich:tab label="tab 1" name="t1">
        <h:outputText value="tab 1" />
    </rich:tab>
    <rich:tab label="tab 1" name="t2">
        <h:outputText value="tab 2" />
    </rich:tab>
    <rich:tab label="tab 1" name="t3">
        <h:outputText value="tab 3" />
    </rich:tab>
</rich:tabPanel>

```

...

1.24. How to remember the current selected tab?

For necessary information you can see discussion about this problem on the [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111761) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111761].

1.25. How to navigate from one tab to another using buttons (apart from tabPanel functionality)?

For necessary information you can see [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4085931#4085931) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4085931#4085931].

1.26. How to retrieve the current value from the inputNumberSlider?

To catch the value of the inputNumberSlider from the JavaScript, use the following approach:

Example:

```
...
<rich:inputNumberSlider width="500" step="20"
    onchange="someFunctionCall(this.input.value)"
    minValue="0"
    maxValue="500"
    value="0"
    showInput="false"
    showToolTip="false"
    showBoundaryValues="false"/>
...
<script>
    function someFunctionCall(value) {
        alert(value);
    }
</script>
...
```


1.27. How to apply skins to the standard input components?

The answer could be found [here](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=103494) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=103494].

1.28. Is there a way to capture the rowdata of dataTable and subTable?

For necessary information you can see discussion about this problem on the [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111965) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=111965]

1.29. Is it possible to use datascroller without its table border and styles (to show only links)?

It's necessary to redefine rich* classes for example like this:

Example:

```
.rich-datascr-button {  
border: 0px;  
}  
.rich-dtascroller-table {  
border: 0px;  
}  
.rich-datascr-button {  
background-color: transparent;  
}
```

1.30. How to use subTable in combination with dataTable?

The answer could be found [here](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4059044#4059044) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4059044#4059044].

1.31. How to do correct pagination using datascroller (load a part of data from database)?

The answer could be found on the [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4060199#4060199) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4060199#4060199].

How to use `<rich:dataTable>` and `<rich:datascroller>` in a context of Extended Data Model see [here](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=115636) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=115636].

1.32. How to make html scrollbars in modalPanel?

The answer could be found on the RichFaces Users Forum:

- <http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4062877#4062877>
- <http://www.jboss.com/index.html?module=bb&op=viewtopic&t=105412>

1.33. How to expand/collapse tree nodes from code?

The answer could be found [here](http://labs.jboss.com/wiki/ExpandCollapseTreeNodes) [http://labs.jboss.com/wiki/ExpandCollapseTreeNodes].

1.34. How to use JavaScript API?

The simple code is placed below:

Example:

```
...
<a4j:form id="form">
  <h:panelGroup id="test" columns="2" style="width: 300px">
    <h:selectBooleanCheckbox value="#{bean.check}">
      <a4j:support event="onchange" reRender="test" />
      <f:selectItem itemValue="true" itemLabel="Show" />
      <f:selectItem itemValue="false" itemLabel="Hide" />
    </h:selectBooleanCheckbox>
    <rich:calendar popup="true"
      rendered="#{!bean.check}" value="#{bean.date}" id="c"/>
    <a onclick="$('form:c').component.doExpand()" href="#">Show</a>
  </h:panelGroup>
</a4j:form>
...
```

1.35. How to load the Scriptaculous library?

To load the whole Scriptaculous library shipped with RichFaces use `<a4j:loadScript>` tag.

Example:

```
...
```

```
<a4j:loadScript src="resource://scriptaculous.js" />
...
```

Thus, this command allows loading an integrated version of the library that includes all existing scriptaculous files except unittest.js.

If you don't want to load the whole library, but only the particular file, for example, `effect.js`, use the following line:

Example:

```
...
<a4j:loadScript src="resource://scriptaculous/effect.js" />
...
```

Remember, it does not make sense to load the particular file if you already load the whole version.

For more information see [RichFaces Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=119044) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=119044].

1.36. How to avoid a problem with text wrapping in <rich:tab> in Internet Explorer 7?

A problem with tab height occurs in IE 7. The tab height is correct in Firefox and IE 6. This is IE's 7 bug. As a temporary solution you can try to change doctype declaration from:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

to:

```
<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
```

See also <http://jira.jboss.com/jira/browse/RF-1011>.

1.37. How to save <rich:effect> status?

<rich:effect> component has several callback methods such as `beforeStart`, `afterFinish`. You can use them to save the status.

See also [core effects](http://wiki.script.aculo.us/scriptaculous/show/CoreEffects) [http://wiki.script.aculo.us/scriptaculous/show/CoreEffects] in scriptaculous.

1.38. How to send an additional parameter to server working with <rich:suggestionbox>?

An example is placed below:

```
...  
  
<rich:suggestionbox width="200" height="200" for="test" suggestionAction="#{bean.autocomplete}" var="cap">  
    <h:column>  
        <f:facet name="header">  
            <h:outputText value="Sometext"></h:outputText>  
        </f:facet>  
        <h:outputText value="#{cap.text}"></h:outputText>  
    </h:column>  
    <a4j:support event="onselect" action="#{bean.action}">  
        <f:setPropertyActionListener value="#{cap.label}" target="#{bean.property1}" />  
    </a4j:support>  
</rich:suggestionbox>  
  
...
```

In the example "onselect" event is used for sending selected value to the server. It's also possible to pass additional fields of selected object (which don't belong to "fetchvalue" attribute.)

1.39. How to set <rich:dataTable> border to 0px?

Add the following code to your css file:

```
...  
        .rich-table, .rich-table-header, .rich-table-headercell, .rich-table-cell, .rich-subtable-  
cell, .rich-table-footercell, .rich-subtable-footercell {  
            border-width:0px;  
        }  
...  
...
```

1.40. How to create <rich:suggestionbox> dynamically?

This is a working example:

```
...  
    org.apache.myfaces.component.html.ext.HtmlInputText searchBox = new org.apache.myfaces.component.htm
```

```

searchBox.setId( "inputQuery" );
bar.getChildren().add( searchBox );

org.richfaces.component.html.HtmlSuggestionBox suggestions = new org.richfaces.component.html.HtmlSugg
suggestions.setId( "sugg" );
suggestions.setFor( "inputQuery" );
suggestions.setTokens( "," );
suggestions.setRules( "none" );

javax.faces.el.MethodBinding mb = app.createMethodBinding( "#{suggestionBox.autocomplete}", new Class[]
suggestions.setSuggestionAction( mb );
suggestions.setVar( "result" );

suggestions.setRows( 0 );
suggestions.setFirst( 0 );
suggestions.setMinChars( "#{suggestionBox.minchars}" );
suggestions.setShadowOpacity( "4" );
suggestions.setBorder( "1" );
suggestions.setWidth( "200" );
suggestions.setHeight( "150" );
suggestions.setShadowDepth( "4" );
suggestions.setCellpadding( "2" );

org.apache.myfaces.custom.column.HtmlSimpleColumn column = new org.apache.myfaces.custom.column.H
column.setId( "col1" );
org.apache.myfaces.component.html.ext.HtmlOutputText text = new org.apache.myfaces.component.html.ext.
text.setId( "text1" );

javax.faces.el.ValueBinding vb = app.createValueBinding( "#{result.text}" );
text.setValueBinding( "value", vb );
column.getChildren().add( text );
suggestions.getChildren().add( column );
bar.getChildren().add( suggestions );

```

...

See also [RichFaces User Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4099047#4099047) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4099047#4099047].

1.41. How to apply button label for <rich: calendar>?

Necessary information could be found on the [RichFaces User Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4120993#4120993) [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4120993#4120993].

1.42. What should I change on the server side?

The list of zones to be reRendered can be specified as EL expression. But there is a question that must be specified more exactly.

The list of Ids is formed during beforePhase of RENDER_RESPONSE. Therefore, in this case one can point reRender to the Set type Bean's property and fill the Set during a tracking request.

It's the way to form a list of updatable areas dynamically.

1.43. How to check sending request conditions? Custom JavaScript before request "OnSubmit" attribute.

To check on the client some terms of request sending, the *"onSubmit"* attribute is added to all components, which may cause the request.

Example:

```
<h:inputText id="i" value="#{beanText.kennung}">
  <a4j:support event="onfocus" onsubmit="doSomething();" reRender="panelToReRender"/>
</h:inputText>
```

So in this case *doSomething()* function is executed before the Ajax request.

Besides, if this function returns *"false"*, Ajax request isn't fired.



Note:

Behavior of our *"onsubmit"* slightly differs from the standard one. Do not return *"true"* if you want to fire the request - because `<xxx><a4j:support event="onclick" onsubmit="return true;">` is transformed into `<xxx onclick="return true; A4J.Submit(...);" >` and the request isn't fired also in this case (but the standard event processing fired). You must only return *"false"* if your conditions weren't completed or perform some actions (if needed) without any returns in case you need to fire it.

1.44. What is differences of "onComplete" attribute after release 1.0?

To avoid differences with other JavaScript attributes, a function placement in a JavaScript call is changed, instead of simple inserting of attribute content (`..oncomplete :anotherFunction(this) ..`), it places (`oncomplete: function() {anotherFunction(this);} ..`) in anonymous function, to allow put "chain" of statements in attribute.

Since, *"this"* keyword will point to a parameters map instead of a control element as it was before. You may use `document.getElementById()` to get references to this object after a request is processed as when a page is updated in Ajax you will have reference to a control, removed from a DOM tree.

Or, if you are sure that your element is not updated, you can add *"onsubmit"* in `<a4j:support>` (or onclick in `<a4j:commandLink/Button>`) to place reference to known variable (`<a4j:commandLink onclick="var myControl=this; oncomplete="anotherFunction(myControl)"/>`).



Tip:

The onComplete syntax now is:

```
<someAjaxActionComponent ...oncomplete="myFunc(req,event,data)" .../>
```

where the `event` is a variable where the JS event copy that fires the request is placed into. One may use it to get the element instead of this. and `data` is a variable that contains deserialized value from the *"data"* attribute.

1.45. Is it possible to use InvokeOnComponent with JSF 1.2?

RichFaces currently does not use *invokeOnComponent* because of the 2 reasons:

- Compatibility with JSF 1.1 and MyFaces applications is kept, due to a big amount of code used in corporate applications.
- *InvokeOnComponent* works with already known clientId, and works fine for communication between widget and backed component, or updates content of already rendered component.

But there are some troubles to use this method for more complex use-cases implemented in RichFaces, as there is a choice for updatable components in application logic, where it's necessary to navigate in a components tree by the native id, with `findComponent()` methods.

Thus, for example, only entire dataTable can be updated in response (but all Ajax core action components inside table work properly).

1.46. How to avoid generating exception for `<a4j:keepAlive>` component?

To avoid exception, don't forget that the component stores beans in serialized view, but your bean should implement `java.io.Serializable`.

1.47. Why form isn't submitted or setter isn't called after AJAX request?

This situation could happen because of conversion/validation errors on form submission. In order to verify this, it's necessary to place this updating via an Ajax error message inside a form:

Example:

```
<a4j:outputPanel ajaxRendered="true">
    <h:messages/>
</a4j:outputPanel>
```

`<rich:message>` component has build in Ajax support and could be really helpfull together with [JSF Phase Tracker](http://www.jsfone.com/blog/max_katz/2008/07/creating_jsf_phase_listener.html) [http://www.jsfone.com/blog/max_katz/2008/07/creating_jsf_phase_listener.html] in such cases.

1.48. How to create "a4j delayed render zone"?

The `<a4j:support>` component has a `"requestDelay"` attribute where you can define the delay.

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://jboss.com/index.html?module=bb&op=viewtopic&t=104969). [http://jboss.com/index.html?module=bb&op=viewtopic&t=104969]

1.49. How to stop `<a4j:poll>`?

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://jboss.com/index.html?module=bb&op=viewtopic&t=104951). [http://jboss.com/index.html?module=bb&op=viewtopic&t=104951]

1.50. How to use IgnoreDupResponses and requestDelay?

The *"IgnoreDupResponses"* attribute appeared from 1.0.4 RC1 version and is used on the client for response ignoring after an Ajax request if a newer request has been already sent.

The additional information could be found [here](http://jboss.com/index.html?module=bb&op=viewtopic&t=105766) [http://jboss.com/index.html?module=bb&op=viewtopic&t=105766].

"RequestDelay" attribute also defines the client behavior. It sets the time delay, after which another request could be sent, all other requests are taken away from a queue except the last one.

1.51. How to refresh an image using <a4j:support> component?

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://jboss.com/index.html?module=bb&op=viewtopic&t=105995). [http://jboss.com/index.html?module=bb&op=viewtopic&t=105995]

1.52. How to use "EventQueue" attribute?

The *"EventQueue"* attribute defines the query name where the requests are saved before their sending to the server. The queue is created for redundant requests deleting during frequent events, which call several requests forming one after another. The queue cuts redundant requests and send only the last one. The queue is created in any case and named on default, the attribute usage only re-defines this name.

1.53. Is <a4j:page> component required or not?

<a4j:page> is a component used for solving of incompatibility problems in early Ajax4jsf and MyFaces versions. The component encodes the full html page structure.

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://jboss.com/index.html?module=bb&op=viewtopic&t=106849&postdays=0&postorder=asc&start=0). [http://jboss.com/index.html?module=bb&op=viewtopic&t=106849&postdays=0&postorder=asc&start=0]

1.54. Can I have several <a4j:status> components on one page?

Yes, you can. More information about this problem could be found on the [JBoss RichFaces Online Demos](http://livedemo.exadel.com/richfaces-demo/richfaces/status.jsf?c=status) [http://livedemo.exadel.com/richfaces-demo/richfaces/status.jsf?c=status].

1.55. Can I use <a4j:region> within <a4j:repeat>?

<a4j:region> can't work inside iteration components like **<h:dataTable>** and **<a4j:repeat>** .

The details could be found [here](http://jboss.com/index.html?module=bb&op=viewtopic&t=109080). [http://jboss.com/index.html?module=bb&op=viewtopic&t=109080]

1.56. Why custom Ajax request does not work?

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=114025). [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=114025]

1.57. How to reRender single dataTable column?

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://jboss.com/index.html?module=bb&op=viewtopic&t=105725). [http://jboss.com/index.html?module=bb&op=viewtopic&t=105725]

1.58. How to disable skinability?

There is possibility to use special skin with name "plain". It doesn't have any parameters. It's necessary for embedding RichFaces components into existing project which have its own styles.

For information you can see discussion about this problem on the [Ajax4Jsf Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4066340#4066340). [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4066340#4066340]

1.59. Why does reRendering fail? Hide/Show components using rendered.

During "show/hide" functionality implementation the main error happens because of the "reRender" attribute of some Ajax core Action Component is set on a component that depends on rendered properties, i.e. a component that is to be hidden/rendered is tried to be updated. The problem is that if `rendered="false"` in this moment, the component isn't in the DOM tree and can't be updated because of the general limitations described in the Ajax Processing chapter.

The correct variant of functionality implantation:

1. With the rendered attribute wrap the component that is to be hidden or rendered on Ajax in a wrapper component (e.g. `<a4j:outputPanel>`)
2. Set reRender of an Ajax core Action component on this wrapper component instead of the component itself.

Example:

```
...
<a4j:outputPanel id="panel">
  <h:panelGroup rendered="#{bean.rendered}">
    <!--Some nested content to be hidden/shown depending on bean.rendered -->
  </h:panelGroup>
</a4j:outputPanel>
...
```

```
<a4j:commandButton action=".." value=".." reRender="panel"/>
...
```

In this case the wrapper component always presents in the DOM tree and its inner content could be updated dynamically on AJAX.

1.60. How to prevent duplicate reRendering when using <a4j:poll>?

For information you can see discussion about this problem on the [Ajax4Jsf Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4059731#4059731). [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4059731#4059731]

1.61. Why does JavaScript call don't work in <a4j:include>?

More information about this problem could be found on the [Ajax4Jsf Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=104317). [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=104317]

1.62. How to use <a4j:include> and navigation rules?

For information you can see discussion about this problem on the [Ajax4Jsf Users Forum](http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4062036#4062036). [http://www.jboss.com/index.html?module=bb&op=viewtopic&p=4062036#4062036]

1.63. What does ResourceNotRegistered Exception mean?

RichFaces registers its resources (scripts, images) after an application is accessed and then accesses it via a generated URL. During an application development when a developer constantly updates it on the server, it could happen that RichFaces re-registers its resources after every server restart and a browser tries to access them via cached URL.

The problem is solved with browser cash update (e.g. CTRL+F5).

1.64. How to reRender only particular row(s) of table?

"ajaxKeys" attribute defines strings that are updated after an Ajax request. It provides possibility to update several child components separately without updating the whole page.

```
...
<a4j:poll interval="1000" action="#{repeater.action}" reRender="text">
  <table>
    <tbody>
      <a4j:repeat value="#{bean.props}" var="detail" ajaxKeys="#{repeater.ajaxedRowsSet}">
```

```
<tr>
  <td>
    <h:outputText value="detail.someProperty" id="text"/>
  </td>
</tr>
</a4j:repeat>
</tbody>
</table>
</a4j:poll>
...
```

1.65. How to get row selection in scrollableDataTable using one and multi-selection rows mode?

In order to get row selection in scrollableDataTable using one and multi-selection rows mode you should use the *"selection"* attribute.

In the following example when user submits the form current collection of objects selected by user is placed in the object's property. Then on complete action the **<rich:modalPanel>** with selected data will be shown.

Example:

```
...
<h:form>
  <rich:spacer height="30" />
  <rich:scrollableDataTable rowKeyVar="rkv" frozenColCount="1" height="200px"
    width="300px" id="carList" rows="40" columnClasses="col"
    value="#{dataTableScrollerBean.allCars}" var="category" sortMode="single"
    selection="#{dataTableScrollerBean.selection}">
    <rich:column id="make">
      <f:facet name="header">
        <h:outputText styleClass="headerText" value="Make" />
      </f:facet>
      <h:outputText value="#{category.make}" />
    </rich:column>
    <rich:column id="model">
      <f:facet name="header">
        <h:outputText styleClass="headerText" value="Model" />
      </f:facet>
      <h:outputText value="#{category.model}" />
    </rich:column>
    <rich:column id="price">
```

```

        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Price" />
        </f:facet>
        <h:outputText value="#{category.price}" />
    </rich:column>
</rich:scrollableDataTable>
<rich:spacer height="20px"/>
<a4j:commandButton value="Show Current Selection" reRender="table"
    action="#{dataTableScrollerBean.takeSelection}"
    oncomplete="javascript:Richfaces.showModalPanel('panel');"/>
</h:form>
<rich:modalPanel id="panel" autosized="true">
    <f:facet name="header">
        <h:outputText value="Selected Rows"/>
    </f:facet>
    <f:facet name="controls">
        <span style="cursor:pointer" onclick="javascript:Richfaces.hideModalPanel('panel');">X</span>
    </f:facet>
    <rich:dataTable value="#{dataTableScrollerBean.selectedCars}" var="sel" id="table">
        <rich:column>
            <f:facet name="header">
                <h:outputText value="Make" />
            </f:facet>
            <h:outputText value="#{sel.make}" />
        </rich:column>
        <rich:column id="model">
            <f:facet name="header">
                <h:outputText value="Model" />
            </f:facet>
            <h:outputText value="#{sel.model}" />
        </rich:column>
        <rich:column id="price">
            <f:facet name="header">
                <h:outputText value="Price" />
            </f:facet>
            <h:outputText value="#{sel.price}" />
        </rich:column>
    </rich:dataTable>
</rich:modalPanel>
...

```

In order to build this application, you can create a managed bean like this one. Function `takeSelection()` fills the array `selectedCars` with the data, got from the selection. Function

`getSelectedCars()` returns the array `selectedCars`, which is used for filling `<rich:dataTable>` with selected row/rows data.

Example:

```
...
public class DataTableScrollerBean {
    private SimpleSelection selection = new SimpleSelection();
    private ArrayList<DemoInventoryItem> selectedCars = new ArrayList<DemoInventoryItem>();
    ...
    public SimpleSelection getSelection() {
        return selection;
    }
    public void setSelection(SimpleSelection selection) {
        System.out.println("Setting Started");
        this.selection = selection;
        System.out.println("Setting Complete");
    }
    public String takeSelection() {
        getSelectedCars().clear();
        Iterator<SimpleRowKey> iterator = getSelection().getKeys();
        while (iterator.hasNext()){
            SimpleRowKey key = iterator.next();
            getSelectedCars().add(getAllCars().get(key.intValue()));
        }
        return null;
    }
    public ArrayList<DemoInventoryItem> getSelectedCars() {
        return selectedCars;
    }
    public void setSelectedCars(ArrayList<DemoInventoryItem> selectedCars) {
        this.selectedCars = selectedCars;
    }
}
...
```

Some additional information about usage of one and multi-selection rows mode can be found [here](http://www.jboss.com/index.html?module=bb&op=viewtopic&t=122543) [http://www.jboss.com/index.html?module=bb&op=viewtopic&t=122543].

1.66. How to select several rows in a scrollableDataTable and Drag-and-Drop them on dataTable?

How to get row selection in scrollableDataTable using one and multi-selection rows mode you could see the section [above](#).

In order to perform Drag-and-Drop of selected columns on a dataTable you could use **<rich:dragSupport>** and **<rich:dropSupport>** components as it is shown in the example below.

Example:

```
...
<rich:scrollableDataTable rowKeyVar="rkv" frozenColCount="1" height="400px" width="700px" id="carList" rows="10"
    value="#{dataTableScrollerBean.allCars}" var="category" sortMode="single" selection="single">
    <rich:column id="make">
        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Make" />
        </f:facet>
        <a4j:outputPanel>
            <rich:dragSupport dragType="selectionDrag" dragIndicator=":indicator"/>
            <h:outputText value="#{category.make}" />
        </a4j:outputPanel>
    </rich:column>
    <rich:column id="model">
        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Model" />
        </f:facet>
        <h:outputText value="#{category.model}" />
    </rich:column>
    <rich:column id="price">
        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Price" />
        </f:facet>
        <h:outputText value="#{category.price}" />
    </rich:column>
    <rich:column id="mileage">
        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Mileage" />
        </f:facet>
        <h:outputText value="#{category.mileage}" />
    </rich:column>
    <rich:column width="200px" id="vin">
```

```

        <f:facet name="header">
            <h:outputText styleClass="headerText" value="VIN" />
        </f:facet>
        <h:outputText value="#{category.vin}" />
    </rich:column>
    <rich:column id="stock">
        <f:facet name="header">
            <h:outputText styleClass="headerText" value="Stock" />
        </f:facet>
        <h:outputText value="#{category.stock}" />
    </rich:column>
</rich:scrollableDataTable>
<rich:spacer height="20px"/>
<rich:panel style="width:300px; height:300px">
    <f:facet name="header">
        <h:outputText value="Drop Here"/>
    </f:facet>
</rich:drop>
<rich:drop acceptedTypes="selection" dropListener="#{(dataTableScrollerBean.dropLister)}" styleRender="table"/>
<rich:dataTable value="#{(dataTableScrollerBean.droppedCars)" var="sel" id="table">
    <rich:column>
        <f:facet name="header">
            <h:outputText value="Make" />
        </f:facet>
        <h:outputText value="#{sel.make}" />
    </rich:column>
    <rich:column id="model">
        <f:facet name="header">
            <h:outputText value="Model" />
        </f:facet>
        <h:outputText value="#{sel.model}" />
    </rich:column>
    <rich:column id="price">
        <f:facet name="header">
            <h:outputText value="Price" />
        </f:facet>
        <h:outputText value="#{sel.price}" />
    </rich:column>
    <rich:column id="mileage">
        <f:facet name="header">
            <h:outputText value="Mileage" />
        </f:facet>
        <h:outputText value="#{sel.mileage}" />
    </rich:column>

```



```

        </rich:column>
        <rich:column id="stock">
            <f:facet name="header">
                <h:outputText value="Stock" />
            </f:facet>
            <h:outputText value="#{sel.stock}" />
        </rich:column>
    </rich:dataTable>
</rich:panel>
...

```

This is the page from [RichFaces LiveDemo](http://livedemo.exadel.com/richfaces-demo/richfaces/scrollableDataTable.jsf) [http://livedemo.exadel.com/richfaces-demo/richfaces/scrollableDataTable.jsf] site and also uses beans from RichFaces LiveDemo site. Only one method is added where the dropped selection is stored:

```

...
public void dropListener(DropEvent event) {
    System.out.println("Drop Listener Fired");
    getDroppedCars().clear();
    Iterator<SimpleRowKey> item = getSelection().getKeys();
    while (item.hasNext()){
        SimpleRowKey key = item.next();
        getDroppedCars().add(getAllCars().get(key.intValue()));
    }
}
...

```

1.67. How to save the state of <rich:simpleTogglePanel>?

In order to save the state (expand/collapse) of the <rich:simpleTogglePanel> component you could use "opened" attribute responsible for keeping a panel state and <a4j:support> binded to "onexpand" and "oncollapse" events.

In the following example when you click on the toggle icon <rich:simpleTogglePanel> appears and current state displays on <rich:modalPanel> . This state is remembered between page views.

Example:

```

...
<rich:simpleTogglePanel id="toggleP" label="simpleTogglePanel" switchType="client" width="600px" opened="#{

```

```

<a4:event="actionListener=#{bean.stateRender}" onclick="Richfaces.showModalPanel('myFrom:panel')"
>
<a4:event="actionListener=#{bean.stateRender}" onclick="Richfaces.showModalPanel('myFrom:panel')"
>
    <h:panelGrid columns="2" border="0">
        <h:graphicImage url="pics/Canon.jpg" alt="" width="100px" height="100px" />
        <h:panelGroup>
            <h:outputText style="font: 18px;font-weight: bold;" value="Canon EOS Digital
Rebel XT" />
            <f:verbatim>
                <br />
                8.2 Megapixels - SLR / Large Digital Camera - 1.8 in LCD Screen -
                Storage: Compact Flash, Compact Flash Type II - Built In Flash
            </f:verbatim>
        </h:panelGroup>
    </h:panelGrid>
</rich:simpleTogglePanel>
<rich:modalPanel id="panel" width="300" height="100">
    <f:facet name="header">
        <h:outputText value="States of simpleTogglePanel" />
    </f:facet>
    <f:facet name="controls">
        <span style="cursor: pointer" onclick="Richfaces.hibeandalPanel('myFrom:panel')">X</
span>
    </f:facet>
    <h:outputText value="Expanded simpleTogglePanel: " style="font-weight:bold;" />
    <h:outputText value="#{bean.state}" id="repeater" />
</rich:modalPanel>
...

```

In order to build this application, you can create a managed bean like this one.

Example:

```

...
public class bean {

    private boolean state = false;

    public boolean isState() {
        return state;
    }
}

```

```

    }

    public void setState(boolean state) {
        this.state = state;
    }

    public void stateTrue(ActionEvent event) {
        this.state = true;
    }

    public void stateFalse(ActionEvent event) {
        this.state = false;
    }
}
...

```

1.68. How to save the state of <rich:panelMenuGroup>?

With the help of the *"expanded"* attribute and **<a4j:support>** binded to *"onexpand"* and *"oncollapse"* events you could keep the state ("expand"/"collapse") of the **<rich:panelMenuGroup>** component.

In the following example when you click on the toggle icon the **<rich:panelMenuGroup>** expands and current state displays on **<rich:modalPanel>**. This state is remembered between page views.

Example:

```

...
<h:form id="myForm">

    <rich:panelMenu expandMode="ajax" iconExpandedTopGroup="chevronUp" iconCollapsedTopGroup="chevronDown">
        <rich:panelMenuGroup label="Group 1" expanded="#{bean.state}">
            <a4j:support event="onexpand" actionListener="#{bean.stateRenderer}" oncomplete="Richfaces.showModalPanel('myForm:panel')"/>
        >
        <a4j:support event="oncollapse" actionListener="#{bean.stateRenderer}" oncomplete="Richfaces.showModalPanel('myForm:panel')"/>
        <rich:panelMenuItem label="Item 1.1" />
        <rich:panelMenuItem label="Item 1.2" />
        <rich:panelMenuItem label="Item 1.3" />
    </rich:panelMenuGroup>
</rich:panelMenu>

```

```
<rich:modalPanel id="panel" width="230" height="50">
  <f:facet name="header">
    <h:outputText value="States of rich:panelMenuGroup" />
  </f:facet>
  <f:facet name="controls">
    <span style="cursor:
pointer" onclick="Richfaces.hideModalPanel('myFrom:panel')">X</span>
  </f:facet>
  <h:outputText value="Expanded rich:panelMenuGroup: " />
  <h:outputText value="#{bean.state}" id="repeater" />
</rich:modalPanel>
</h:form>
...
```

In order to build this application, you can create a managed bean like [this one \[28\]](#).

1.69. How to highlight rows in a dataTable when the mouse is over?

In order to highlight rows in a dataTable when the mouse is over you should use "onRowMouseOver" and "onRowMouseOut" attributes.

Example:

```
...
<h:form>
  <rich:dataTable onRowMouseOver="this.style.font = 'bold 20pt Arial'"
    onRowMouseOut="this.style.font='#{a4jSkin.tableFont}'"
    cellpadding="0" cellspacing="0"
    width="700" border="0" var="record" value="#{report.expReport.records}"
    onRowClick="#{dataTableBean.onRowClick}">
    <f:facet name="header">
      <rich:columnGroup>
        <rich:column rowspan="2">
          <rich:spacer />
        </rich:column>
        <rich:column colspan="3">
          <h:outputText value="Expenses" />
        </rich:column>
        <rich:column rowspan="2">
          <h:outputText value="subtotals" />
        </rich:column>
        <rich:column breakBefore="true">

```

```

        <h:outputText value="Meals" />
    </rich:column>
    <rich:column>
        <h:outputText value="Hotels" />
    </rich:column>
    <rich:column>
        <h:outputText value="Transport" />
    </rich:column>
</rich:columnGroup>
</f:facet>
<rich:column colspan="5">
    <h:outputText value="#{record.city}" />
</rich:column>
<rich:subTable onRowMouseOver="this.style.font = 'bold 20pt Arial'"
    onRowMouseOut="this.style.font='#{a4jSkin.tableFont}'"
    var="expense" value="#{record.items}">
    <rich:column>
        <h:outputText value="#{expense.day}"></h:outputText>
        <f:facet name="footer">
            <rich:spacer />
        </f:facet>
    </rich:column>
    <rich:column>

        <h:outputText value="#{expense.meals}"><f:convertNumber
            pattern="$####.00" /></
h:outputText>

        <f:facet name="footer">

        <h:outputText value="#{record.totalMeals}"><f:convertNumber
            pattern="$####.00" /></
h:outputText>

        </f:facet>
    </rich:column>
    <rich:column>

        <h:outputText value="#{expense.hotels}"><f:convertNumber
            pattern="$####.00" /></
h:outputText>

        <f:facet name="footer">

        <h:outputText value="#{record.totalHotels}"><f:convertNumber
            pattern="$####.00" /></
h:outputText>

        </f:facet>
    </rich:column>
    <rich:column>

```

```
<h:outputText value="#{expense.transport}"><f:convertNumber pattern="$####.00" /></h:outputText>

    <f:facet name="footer">

        <h:outputText value="#{record.totalTransport}"><f:convertNumber pattern="$####.00" /></h:outputText>

            </f:facet>
        </rich:column>
        <rich:column>
            <rich:spacer></rich:spacer>
            <f:facet name="footer">

                <h:outputText value="#{record.total}"><f:convertNumber pattern="$####.00" /></h:outputText>

                    </f:facet>
                </rich:column>
            </rich:subTable>
            <f:facet name="footer">
                <rich:columnGroup>
                    <rich:column>Totals</rich:column>
                    <rich:column>

                        <h:outputText value="#{report.expReport.totalMeals}"><f:convertNumber pattern="$####.00" /></h:outputText>

                            </rich:column>
                        <rich:column>

                            <h:outputText value="#{report.expReport.totalHotels}"><f:convertNumber pattern="$####.00" /></h:outputText>

                                </rich:column>
                            <rich:column>

                                <h:outputText value="#{report.expReport.totalTransport}"><f:convertNumber pattern="$####.00" /></h:outputText>

                                    </rich:column>
                                <rich:column>

                                    <h:outputText value="#{report.expReport.grandTotal}"><f:convertNumber pattern="$####.00" /></h:outputText>

                                        </rich:column>
                                    </rich:columnGroup>
                                </f:facet>
                            </rich:dataTable>
```

How to select one row of a `<rich:dataTable>` by clicking on it, even if clicked in an `<h:inputText>` of this row?

```
</h:form>
...
```

1.70. How to select one row of a `<rich:dataTable>` by clicking on it, even if clicked in an `<h:inputText>` of this row?

In order to select one row of a `dataTable` by clicking on it you could use JavaScript function described below.

Example:

```
...
<script type="text/javascript">
    var oldRow;
    function changeColor(row)
    {
        if (oldRow!=undefined)
        {
            oldRow.style.backgroundColor='#ffffff';
        }
        row.style.backgroundColor='#ffff00';
        oldRow=row;
    }
</script>
...
```

Then you could use `<a4j:support>` with `"event"` and `"onsubmit"` attributes.

Example:

```
...
<h:form>
    <rich:dataTable cellpadding="0" cellspacing="0"
        width="700" border="0" var="record" value="#{report.expReport.records}">
        <a4j:support event="onRowClick" onsubmit="changeColor(this)" ajaxSingle="true">
            <f:param name="currentRow" value="#{record.city}"/>
        </a4j:support>
        ...
    </rich:dataTable>
</h:form>
```

...

1.71. How to reRender table cells with <a4j:support>?

In order to reRender table cells with **<a4j:support>** you should set exact ids values for every updatable components and point this id to the *"reRender"* attribute.



Note:

The value of *"reRender"* attribute of the **<a4j:support>** tag defines which part(s) of our page is (are) to be updated. In this case, the only part of the page to update is the **<h:outputText>** tag because its id value matches to the value of *"reRender"* attribute. As you see, it's not difficult to update multiple elements on the page, only list their ids as the value of *"reRender"* attribute .

Example:

```
...
<rich:column>
  <f:facet name="header">
    <h:outputText value="Input1"/>
  </f:facet>
  <f:facet name="footer">
    <h:outputText value="#{Controller.totalInput1}"/>
  </f:facet>
  <h:inputText id="input1" value="#{entry.input1}">

  <a4j:support actionListener="{Controller.updateEntry}" event="onblur" reRender="output1"/>
  </h:inputText>
</rich:column>
<rich:column>
  <f:facet name="header">
    <h:outputText value="Value2"/>
  </f:facet>
  <f:facet name="footer">
    <h:outputText value="#{Controller.totalOutput1}"/>
  </f:facet>
  <h:outputText id="output1" value="#{entry.output1}"/>
</rich:column>
...
```

As it could be seen in the example above, the footer with **<h:outputText>** reRenderes.

1.72. How to dynamic columns?

In order to create dynamic columns you could use the `<rich:column>` component with the `"rendered"` attribute. You should just set the value of defined dynamic cell to the `"rendered"` attribute field.

Example:

```
...
<ui:composition template="/WEB-INF/layout/template.xhtml">
    <ui:define name="body">
        <h2>Table</h2>
        <h:form>

<rich:dataTable id="aTable" onRowMouseOver="this.style.backgroundColor='#F1F1F1'"
    onMouseOut="this.style.backgroundColor=#{a4jSkin.tableBackgroundColor}" value="#{t
        <f:facet name="header">
            <rich:columnGroup>
                <rich:column colspan="2">
                    Testing
                </rich:column>
            </rich:columnGroup>
        </f:facet>
        <f:facet name="footer">
            <rich:columnGroup>
                <rich:column colspan="2">
                    Footer
                </rich:column>
            </rich:columnGroup>
        </f:facet>
        <rich:column rendered="#{trb.cellRendered['value1']}">
            <f:facet name="header">
                <s:div>
                    value1 <h:commandLink value="x" action="#{trb.hideColumn('value1')}" />
                </s:div>
            </f:facet>
            <#{row.value1}>
        </rich:column>
    </rich:dataTable>

        Generate new table values:
        <h:commandButton value="generate" action="#{trb.createData}" />
    </h:form>
</h:form>
```

```
        Select which columns are rendered.
        <br/>

        <h:selectBooleanCheckbox title="value1" value="#{trb.cellRendered['value1']}" />
        <br/>
        <h:commandButton value="Apply" action="rerender" />
    </h:form>
</ui:define>
</ui:composition>
...
```

In order to build this application, you can create a managed bean like this one.

Example:

```
public class TableBackingRendered implements Serializable {
    private static final long serialVersionUID = 1L;
    private Random rand = new Random(System.currentTimeMillis());
    private List<TableItem> tableData;
    private Map<String, Boolean> cellRendered = new HashMap<String, Boolean>();
    public TableBackingRendered() {
        createData();
        allCellsRendered();
    }
    public String createData(){
        int count = rand.nextInt(25)+1;
        tableData = new ArrayList<TableItem>(count);
        for(int i=0; i<count; i++){
            tableData.add( new TableItem(
                "value1_" + i,
            ));
        }
        return null;
    }
    public String allCellsRendered() {
        cellRendered.put("value1", Boolean.TRUE);
        return null;
    }
    public String hideColumn(final String columnToHide) {
        cellRendered.put(columnToHide, Boolean.FALSE);
        return null;
    }
}
```

```

public List<TableItem> getTableData() {
    return tableData;
}
public Map<String, Boolean> getCellRendered() {
    return cellRendered;
}
public void setCellRendered(Map<String, Boolean> cellRendered) {
    this.cellRendered = cellRendered;
}
public void setTableData(List<TableItem> tableData) {
    this.tableData = tableData;
}
}
...

```

1.73. RichFaces with Trinidad?

Here is a stripped down version of web.xml that integrates RichFaces and Trinidad.

Example:

```

<?xml version="1.0" ?>
<web-app xmlns="http://java.sun.com/xml/ns/j2ee" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-
app_2_5.xsd"
version="2.5">

<!-- Ajax4jsf -->
<context-param>
<param-name>org.ajax4jsf.SKIN</param-name>
<param-value>blueSky</param-value>
</context-param>

<!-- Seam -->
<listener>
<listener-class>org.jboss.seam.servlet.SeamListener</listener-class>
</listener>
<filter>
<filter-name>Seam Filter</filter-name>
<filter-class>org.jboss.seam.servlet.SeamFilter</filter-class>
</filter>

```

```
<filter-mapping>
  <filter-name>Seam Filter</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
<servlet>
  <servlet-name>Seam Resource Servlet</servlet-name>
  <servlet-class>org.jboss.seam.servlet.SeamResourceServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Seam Resource Servlet</servlet-name>
  <url-pattern>/seam/resource/*</url-pattern>
</servlet-mapping>

<!-- Facelets -->
<context-param>
  <param-name>facelets.DEVELOPMENT</param-name>
  <param-value>true</param-value>
</context-param>

<!-- JSF -->
<context-param>
  <param-name>javax.faces.DEFAULT_SUFFIX</param-name>
  <param-value>.xhtml</param-value>
</context-param>
<servlet>
  <servlet-name>Faces Servlet</servlet-name>
  <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
  <load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>*.xhtml</url-pattern>
</servlet-mapping>
<context-param>
  <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
  <param-value>server</param-value>
</context-param>

<!-- Trinidad - as suggested by a4j-trinidad example-->
<context-param>
  <param-name>org.apache.myfaces.trinidad.ALTERNATE_VIEW_HANDLER</param-name>
  <param-value>com.sun.facelets.FaceletViewHandler</param-value>
</context-param>
<filter>
```

```

    <filter-name>Trinidad</filter-name>
    <filter-class>org.apache.myfaces.trinidad.webapp.TrinidadFilter</filter-class>
  </filter>
  <filter-mapping>
    <filter-name>Trinidad</filter-name>
    <url-pattern>*.xhtml</url-pattern>
    <dispatcher>REQUEST</dispatcher>
    <dispatcher>FORWARD</dispatcher>
    <dispatcher>INCLUDE</dispatcher>
  </filter-mapping>
  <context-param>
    <param-name>org.apache.myfaces.trinidad.CACHE_VIEW_ROOT</param-name>
    <param-value>>false</param-value>
  </context-param>
  <servlet>
    <servlet-name>Trinidad Resources</servlet-name>
    <servlet-class>org.apache.myfaces.trinidad.webapp.ResourceServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Trinidad Resources</servlet-name>
    <url-pattern>/adf/*</url-pattern>
  </servlet-mapping>

  <!-- Security -->
  <security-constraint>
    <web-resource-collection>
      <web-resource-name>Secure Content</web-resource-name>
      <url-pattern>*.xhtml</url-pattern>
    </web-resource-collection>
    <auth-constraint>
      <role-name>AuthorizedUser</role-name>
    </auth-constraint>
    <user-data-constraint>
      <transport-guarantee>NONE</transport-guarantee>
    </user-data-constraint>
  </security-constraint>
  <login-config>
    <auth-method>BASIC</auth-method>
    <realm-name>The Restricted Zone</realm-name>
  </login-config>
  <security-role>
    <description>The role required to access restricted content</description>
    <role-name>AuthorizedUser</role-name>
  </security-role>

```

```
<!-- Welcome files -->
<welcome-file-list>
  <welcome-file>index.xhtml</welcome-file>
</welcome-file-list>

</web-app>
```

1.74. Why does Java Script conflict?

Richfaces 3.1.3 uses 1.6.0 version of prototype.js script instead of 1.5.1 that's been used for earlier versions. There are 2 prototype versions included (the first included implicitly as a dependency of toggle panel components and the second one included explicitly as a link). Versions conflict is the cause of the problem.

RichFaces 3.1.3 is bundled with the same ones as Prototype 1.6.0, Scriptaculous 1.8.0

Example in web.xml::

```
...
<context-param>
  <param-name>org.richfaces.ExcludeScripts</param-name>
  <param-value>Prototype,Scriptaculous</param-value>
</context-param>
...
```

RichFaces components use Prototype very hard. In particular, some patches has been removed that are already included into 1.6.0. Adding feature with exclusion makes it possible to use Prototype with version less than 1.6.0. This will break some of the components.

1.75. <rich:fileUpload> with Seam

The **<rich:fileUpload>** component could work together with Seam framework.

Initialization parameters should be defined for Seam Filter in web.xml. They will be automatically set up for Ajax4Jsf Filer by Seam framework on start up.

Example:

```
...
<filter>
  <filter-name>Seam Filter</filter-name>
  <filter-class>org.jboss.seam.servlet.SeamFilter</filter-class>
```

```
<init-param>
  <param-name>createTempFiles</param-name>
  <param-value>true</param-value>
</init-param>
<init-param>
  <param-name>maxRequestSize</param-name>
  <param-value>200000</param-value>
</init-param>
</filter>
...
```

1.76. <rich:fileUpload> with MyFaces

The following order, in which filters are defined and mapped in web.xml, is important for **<rich:fileUpload>** component proper work with MyFaces. Note that the extension filter should be mapped on faces servlet not to *.jsf (!) to provide this sequence work correctly.

Example:

```
...
<!--Ajax filter definition-->
<filter>
  <display-name>Ajax4jsf Filter</display-name>
  <filter-name>ajax4jsf</filter-name>
  <filter-class>org.ajax4jsf.Filter</filter-class>
  <init-param>
    <param-name>createTempFiles</param-name>
    <param-value>true</param-value>
  </init-param>
</filter>

<!--Extensions filter definition-->
<filter>
  <filter-name>extensionsFilter</filter-name>
  <filter-class>org.apache.myfaces.webapp.filter.ExtensionsFilter</filter-class>
  <init-param>
    <description>

Set the size limit for uploaded files. Format: 10 - 10 bytes 10k - 10 KB 10m - 10 MB 1g - 1 GB

    </description>
    <param-name>uploadMaxFileSize</param-name>
    <param-value>100m</param-value>
  </init-param>
```

```
<init-param>
  <description>

Set the threshold size - files below this limit are stored in memory, files above this limit are stored on disk. Format:

  </description>
  <param-name>uploadThresholdSize</param-name>
  <param-value>100k</param-value>
</init-param>
</filter>

<!--Mapping Ajax filter on the faces servlet-->
<filter-mapping>
  <filter-name>ajax4jsf</filter-name>
  <servlet-name>Faces Servlet</servlet-name>
  <dispatcher>REQUEST</dispatcher>
  <dispatcher>FORWARD</dispatcher>
  <dispatcher>INCLUDE</dispatcher>
  <dispatcher>ERROR</dispatcher>
</filter-mapping>

<!--Mapping MyFaces extension filter on the faces servlet-->
<filter-mapping>
  <filter-name>extensionsFilter</filter-name>
  <servlet-name>Faces Servlet</servlet-name>
</filter-mapping>

<!--Listener, that allows Jetty serving MyFaces applications-->
<listener>
  <listener-class>org.apache.myfaces.webapp.StartupServletContextListener</listener-
class>
</listener>

<!--Faces servlet definition-->
<servlet>
  <servlet-name>Faces Servlet</servlet-name>
  <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
  <load-on-startup>1</load-on-startup>
</servlet>

<!--MappingFaces servlet on the *.jsf -->
<servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>*.jsf</url-pattern>
</servlet-mapping>
```


...

1.77. Optional object selection in <rich:suggestionbox>

The **<rich:suggestionbox>** component provides such feature as object selection. In order to store selected items as objects and then get access to them you could use next scenario:

- Add *"usingSuggestObjects"* attribute with "true" value to **<rich:suggestionbox>**
- Use *"onobjectchanged"* event attribute to store objects currently selected
- All selected objects are stored under `suggestion.SelectedItems` array. Each array element contains of `text` and `object` properties. So, you could iterate this array, get not null objects and then get the property you need.

1.78. How to handle ViewExpiredException?

As RichFaces 3.1 is targeted at JSF 1.1, you won't get `ViewExpiredExceptions` generated when using it with JSF 1.2. This exception appears after session timeout.

Fortunately there is an easy workaround. Add to your web.xml:

```
...
<context-param>
  <param-name>com.sun.faces.enableRestoreView11Compatibility</param-name>
  <param-value>true</param-value>
</context-param>
...
```

1.79. How to handle Request Errors and Session Expiration?

In order to redefine standard handlers responsible for processing of different exceptional situations you should take the following steps:

- add to your web.xml the following code:

```
...
<context-param>
  <param-name>org.ajax4jsf.handleViewExpiredOnClient</param-name>
  <param-value>true</param-value>
</context-param>
```

...

- add custom "onError", "onExpire" handlers:

```
...
A4J.AJAX.onError = function(req,status,message){
    window.alert("Custom onError handler "+message);
}
A4J.AJAX.onExpired = function(loc,expiredMsg){
    if(window.confirm("Custom onExpired handler "+expiredMsg+" for a location: "+loc)){
        return loc;
    } else {
        return false;
    }
}
...
```

For the detailed description see the [Request Errors and Session Expiration Handling](http://www.jboss.org/file-access/default/members/jbossrichfaces/freezone/docs/devguide/en/html_single/index.html#RequestErrorsAndSessionExpirationHandling) [http://www.jboss.org/file-access/default/members/jbossrichfaces/freezone/docs/devguide/en/html_single/index.html#RequestErrorsAndSessionExpirationHandling] section of the Developer Guide.



Note:

Note that custom "onError", "onExpire" handlers do not work under MyFaces. MyFaces handles exception by its internals generating debug page. You could use the following code to prevent such behavior:

```
...
<context-param>
    <param-name>org.apache.myfaces.ERROR_HANDLING</param-name>
    <param-value>false</param-value>
</context-param>
...
```

1.80. How to add cookie in an AJAX Respond?

In order to add cookie in an AJAX Respond you could use bean described below.

Example:

```

...
public class CookieBean {

    private String testCookie = null;

    public String setTestCookie() {
        ExternalContext externalContext = FacesContext.getCurrentInstance().getExternalContext();
        HttpServletResponse response = (HttpServletResponse) externalContext.getResponse();
        Cookie cookie = new Cookie("test", "Setted at time " + System.currentTimeMillis());
        cookie.setMaxAge(60 * 60 * 24 * 365);
        response.addCookie(cookie);
        return "verify_cookie";
    }

    public String getTestCookie() {
        ExternalContext externalContext = FacesContext.getCurrentInstance().getExternalContext();
        HttpServletRequest request = (HttpServletRequest) externalContext.getRequest();
        Cookie[] cookies = request.getCookies();
        for (int i = 0; i < cookies.length; i++) {
            if (cookies[i].getName().equals("test")) {
                testCookie = cookies[i].getValue();
                return testCookie;
            }
        }
        return null;
    }
}
...

```

Then you could try to set cookie with AJAX Respond as it is shown in the following example. After the cookie "test" is set the value of this cookie appears on a page.

Example:

```

...
<h:form>
    <h:outputText id="text" value="Cookie value: #{cookieBean.testCookie}"/>
    <br />
    <a4j:commandButton action="#{cookieBean.setTestCookie}" value="Set Cookie by AJAX">
        <a4j:support event="oncomplete" reRender="text" />
    </a4j:commandButton>
</h:form>

```

...

1.81. What's new in a4j in 3.2.x release

RichFaces 3.2.x releases have some new features:

- the `<a4j:portlet>` component is DEPRECATED as far as JSR-301 was defined a same functionality for a UIViewRoot component;
- to provide different types of validations `<rich:ajaxValidator>`, `<rich:beanValidator>` and `<rich:graphValidator>` validators are added.

1.82. How to launch the RichFaces sample on the JBoss server

In order to launch the RichFaces sample application on the JBoss server you necessary to add the following code to your web.xml:

```
...
<context-param>
  <param-name>org.jboss.jbossfaces.WAR_BUNDLES_JSF_IMPL</param-name>
  <param-value>true</param-value>
</context-param>
...
```

1.83. How to pass the boolean value in the `<rich:componentControl>` component?

There is an example which will help you to do without a boolean value definition below.

```
...
<rich:componentControl event="oncontextmenu" attachTiming="onload" for="em" operation="show">
  <f:param value="#{node.description}" name="nm"/>
  <f:param value="#{node.id}" name="id"/>
  <f:param value="#{node.craftUrl}" name="crft"/>
  <f:param value="#{node.craftUrl == null ? 'block' : 'none' }" name="cd"/>
  <f:param value="#{node.craftUrl == null ? 'none' : 'block' }" name="ce"/>
</rich:componentControl>
...
<rich:menuItem style="display: {cd};" value="Launch
Craft" disabled="true" submitMode="none"/>
```

```
<rich:menuItem style="display: {ce};" value="Launch  
Craft" disabled="false" onclick="launchcrt('{crt}')"/>  
...
```

Use 'block' instead of ' ' in order to avoid the CSS errors about invalid style.

