JavaServer Pages™ (JSP™) Syntax version 1.2

Element	Description	Syntax	
		JSP	**XML**
	Legend	All tags are case sensitive. A pair of single quotes is equivalent to a pair of double quotes. Spaces are not allowed between an equals sign and an attribute value.	
		plain text = required **bold** = default *italics* = user-defined | = or [ ] = optional { } = required choice ... = list of items + = can repeat	
	Notes	1. JSP and XML syntax cannot be mixed within a page. 2. A page in one syntax can include or forward to a page in the other syntax. 3. Some action elements have attributes whose value can be computed at request time. In JSP syntax, the format of such a value is the same as a JSP expression: <%= expression %>. In XML syntax, the format of the value is %= expression %.	

Root	Defines standard elements and namespace attributes of tag libraries.	No equivalent.	`<jsp:root`
			  `xmlns:jsp="http://java.sun.com/JSP/Page"`
			  `[xmlns:`*taglibPrefix*`="`*URI*`"]+ ...`
			  `version="1.2">`
			    other elements
			`</jsp:root>`

Comment	Documents the JSP file, but is not included in the response.	`<%-- ` *comment* ` --%>`	No equivalent.

Declaration	Declares variables or methods valid in the page's scripting language.	`<%! ` *declaration; [declaration;]+ ... * `%>`	`<jsp:declaration>`
			  declaration [*declaration*;]+ ...
			`</jsp:declaration>`

Expression	Contains an expression valid in the page's scripting language.	`<%= ` *expression* ` %>`	`<jsp:expression>`
			  expression
			`</jsp:expression>`

Scriptlet	Contains a code fragment valid in the page's scripting language.	`<% ` *code fragment* ` %>`	`<jsp:scriptlet>`
			  code fragment
			`</jsp:scriptlet>`

Text	Encloses template data	No equivalent.	`<jsp:text>`
			  template data
			`</jsp:text>`
			
			XML syntax allows an XML element that does not represent a standard or custom action to appear anywhere a jsp:text can appear. Such an element is passed to the current out.

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Element	Description	Syntax	
		JSP	**XML**
Include Directive	Includes a file, parsing the file's JSP elements.	<%@ include file="*relativeURL*" %>	<jsp:directive.include file="*relativeURLspec*" />
Page Directive	Defines attributes that apply to a JSP page.	<%@ page [language="**java**"] [extends="*package.class*"] [import="{*package.class* | *package.**}* , ... "] [session="**true** | false"] [buffer="none | **8kb** | *size*kb"] [autoFlush="**true** | false"] [isThreadSafe="**true** | false"] [info="*text*"] [errorPage="*relativeURL*"] [isErrorPage="true | **false**"] [contentType="{*mimeType* [; charset=*characterSet*] | **text/html ; charset=ISO-8859-1**}"] [pageEncoding="{*characterSet* | **ISO-8859-1**}"] %>	<jsp:directive.page *pageDirectiveAttrList* /> where *pageDirectiveAttrList* is the same as the list in the JSP column.
Taglib Directive	Defines a tag library and prefix for custom tags used in the JSP page.	<%@ taglib uri="*URI*" prefix="*tagPrefix*" %>	No equivalent. Included in Root

<tagPrefix:name>	Accesses a custom tag's functionality.	*<tagPrefix:name attribute*="*value*"+ ... /> |
		<tagPrefix:name attribute="*value*"+ ... >
		   other tags and data
		</ tagPrefix:name>
			<tagPrefix:name attribute="*value*"+ ... /> |
			<tagPrefix:name attribute="*value*"+ ... >
			   other tags and data
			</ tagPrefix:name>

<jsp:forward>	Forwards a request to a web resource.	<jsp:forward page="{*relativeURL* | <%= *expression* %> }" { /> | > [<jsp:param name="*parameterName*" value="{*parameterValue* | <%= *expression* %>}" />] + </jsp:forward> }	<jsp:forward page="{*relativeURL* | %= *expression* % }" { /> | > [<jsp:param name="*parameterName*" value="{*parameterValue* | %= *expression* %}" />] + </jsp:forward> }
<jsp:getProperty>	Inserts the value of a bean property into the result.	<jsp:getProperty name="*beanInstanceName*" property="*propertyName*" />	<jsp:getProperty name="*beanInstanceName*" property="*propertyName*" />
<jsp:include>	Includes a static file or the result from another web component.	<jsp:include page="{*relativeURL* | <%= *expression* %>}" [flush="true | **false**"] { /> | > [<jsp:param name="*parameterName*" value="{*parameterValue* | <%= *expression* %>}" />] + </jsp:include> }	<jsp:include page="{*relativeURL* | %= *expression* %}" [flush="true | **false**"] { /> | > [<jsp:param name="*parameterName*" value="{*parameterValue* | %= *expression* %}" />] + </jsp:include> }

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Element	Description	Syntax	
		JSP	**XML**
\<jsp:plugin\>	Causes the execution of an applet or bean. The applet or bean executes in the specified plugin. If the plugin is not available, displays a dialog to initiate the download of the plugin software.	\<jsp:plugin type="bean|applet" code="*classFileName*" codebase="*classFileDirectoryName*" [name="*instanceName*"] [archive="*URIToArchive, ...*"] [align="**bottom**|top|middle|left|right"] [height="{*displayPixels* | \<%= *expression* %>}"] [width="{*displayPixels* | \<%= *expression* %>}"] [hspace="*leftRightPixels*"] [vspace="*topBottomPixels*"] [jreversion="*JREVersionNumber* | **1.2**"] [nspluginurl="*URLToPlugin*"] [iepluginurl="*URLToPlugin*"] > [\<jsp:params\> [\<jsp:param name="*parameterName*" value="{*parameterValue* | \<%= *expression* %>}" />]+ \</jsp:params\>] [\<jsp:fallback\> *text message if plugin download fails* \</jsp:fallback\>] \</jsp:plugin\>	\<jsp:plugin type="bean|applet" code="*classFileName*" codebase="*classFileDirectoryName*" [name="*instanceName*"] [archive="*URIToArchive, ...*"] [align="**bottom**|top|middle|left|right"] [height="{*displayPixels* | %= *expression* %}"] [width="{*displayPixels* | %= *expression* %}"] [hspace="*leftRightPixels*"] [vspace="*topBottomPixels*"] [jreversion="*JREVersionNumber* | **1.2**"] [nspluginurl="*URLToPlugin*"] [iepluginurl="*URLToPlugin*"] > [\<jsp:params\> [\<jsp:param name="*parameterName*" value="{*parameterValue* | %= *expression* %}" />]+ \</jsp:params\>] [\<jsp:fallback\> *text message if plugin download fails* \</jsp:fallback\>] \</jsp:plugin\>
\<jsp:setProperty\>	Sets a bean property value or values.	\<jsp:setProperty name="*beanInstanceName*" { property="***" | property="*propertyName*" [param="*parameterName*"] | property="*propertyName*" value="{*string* | \<%= *expression* %>}" } />	\<jsp:setProperty name="*beanInstanceName*" { property="***" | property="*propertyName*" [param="*parameterName*"] | property="*propertyName*" value="{*string* | %= *expression* %}" } />
\<jsp:useBean\>	Locates or instantiates a bean with a specific name and scope.	\<jsp:useBean id="*beanInstanceName*" scope="**page**|request|session|application" { class="*package.class*" [type="*package.class*"] | beanName="{*package.class* | \<%= *expression* %>}" type="*package.class*" | type="*package.class*" } { /> | > *other elements* \</jsp:useBean\> }	\<jsp:useBean id="*beanInstanceName*" scope="**page**|request|session|application" { class="*package.class*" [type="*package.class*"] | beanName="{*package.class* | %= *expression* %}" type="*package.class*" | type="*package.class*" } { /> | > *other elements* \</jsp:useBean\> }

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Implicit Objects	Type	Scope	Some Useful Methods (see class or interface for others)
request	Subclass of *javax.servlet.ServletRequest*	Request	getAttribute, getParameter, getParameterNames, getParameterValues, setAttribute
response	Subclass of *javax.servlet.ServletResponse*	Page	Not typically used by JSP page authors
pageContext	*javax.servlet.jsp.PageContext*	Page	findAttribute, getAttribute, getAttributesScope, getAttributeNamesInScope, setAttribute
session	*javax.servlet.http.HttpSession*	Session	getAttribute, getId, setAttribute
application	*javax.servlet.ServletContext*	Application	getAttribute, getMimeType, getRealPath, setAttribute
out	*javax.servlet.jsp.JspWriter*	Page	clear, clearBuffer, flush, getBufferSize, getRemaining
config	*javax.servlet.ServletConfig*	Page	getInitParameter, getInitParameterNames
page	*java.lang.Object*	Page	*Not typically used by JSP page authors*
exception	*java.lang.Throwable*	Page	getMessage, getLocalizedMessage, printStackTrace, toString