JavaServer Pages™ (JSP™) Syntax version 1.1

Element	Description	Syntax
	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
HTML Comment	Creates a comment that is sent to the client in the viewable page source.	`<!-- comment [ <%= expression %> ] -->`
Hidden Comment	Documents the JSP file, but is not sent to the client.	`<%-- comment --%>`
Declaration	Declares variables or methods valid in the page scripting language.	`<%! declaration; [ declaration; ]+ ... %>`
Expression	Contains an expression valid in the page scripting language.	`<%= expression %>`
Scriptlet	Contains a code fragment valid in the page scripting language.	`<% code fragment of one or more lines %>`
Include Directive	Includes a static file, parsing the file's JSP elements.	`<%@ include file="relativeURL" %>`
Page Directive	Defines attributes that apply to an entire JSP page.	`<%@ page [language="java"] [extends="package.class"] [import="{package.class	package.*} , ... "]` `[session="true|false"] [buffer="none|8kb|sizekb"] [autoFlush="true|false"]` `[isThreadSafe="true|false"] [info="text"] [errorPage="relativeURL"]` `[contentType="{mimeType [; charset=characterSet]	text/html ; charset=ISO-8859-1}"]` `[isErrorPage="true|false"] %>`
Taglib Directive	Defines a tag library and prefix for the custom tags used in the JSP page.	`<%@ taglib uri="URIToTagLibrary" prefix="tagPrefix" %>`
<tagPrefix:name>	Accesses a custom tag's functionality.	`<tagPrefix:name attribute="value"+ ... />` `<tagPrefix:name attribute="value"+ ... > other tags and data </tagPrefix:name>`

JAVA

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\<jsp:forward>	Forwards a client request to an HTML file, JSP file, or servlet for processing.	\<jsp:forward page="{*relativeURL* | \<%= *expression* %> }"
		{ /> |
		    > [\<jsp:param name="*parameterName*" value="{*parameterValue* | \<%= *expression* %>}" />]+
		    \</jsp:forward> }

\<jsp:getProperty>	Gets the value of a bean property so that you can display it in a result page.	\<jsp:getProperty name="*beanInstanceName*" property="*propertyName*" />

\<jsp:include>	Includes a static file or sends a request to a dynamic file.	\<jsp:include page="{*relativeURL* | \<%= *expression* %>}" flush="true"
		{ /> |
		    > [\<jsp:param name="*parameterName*" value="{*parameterValue* | \<%= *expression* %>}" />]+
		    \</jsp:include> }

\<jsp:plugin>	Downloads plug-in software to the Web browser to execute an applet or bean.	\<jsp:plugin type="bean|applet" code="*classFileName*" codebase="*classFileDirectoryName*"
		[name="*instanceName*"] [archive="*URIToArchive, ...*"] [align="**bottom**|top|middle|left|right"]
		[height="*displayPixels*"] [width="*displayPixels*"] [hspace="*leftRightPixels*"] [vspace="*topBottomPixels*"]
		[jreversion="*JREVersionNumber* | **1.1**"] [nspluginurl="*URLToPlugin*"] [iepluginurl="*URLToPlugin*"] >
		
		  [\<jsp:params> [\<jsp:param name="*parameterName*" value="{*parameterValue* | \<%= *expression* %>}" />]+
		  \</jsp:params>]
		  [\<jsp:fallback> *text message for user* \</jsp:fallback>]
		
		\</jsp:plugin>

\<jsp:setProperty>	Sets a property value or values in a bean.	\<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*"] | type="*package.class*" |
		    beanName="{*package.class* | \<%= *expression* %>}" type="*package.class*" }
		{ /> | > *other elements* \</jsp:useBean> }

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

Is this heaven? No, it's the JavaServer Pages technology. Printed in USA 2/2000