



JAVASERVER PAGES™ (JSP) SYNTAX

JSP 1.1

Element	Description	JSP 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 <i>italics</i> = 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.	<code><!-- comment [<%= expression %>] --></code>
Hidden Comment	Documents the JSP file, but is not sent to the client.	<code><%-- comment --%></code>
Declaration	Declares variables or methods valid in the page scripting language.	<code><%! declaration; [declaration;]+ ... %></code>
Expression	Contains an expression valid in the page scripting language.	<code><%= expression %></code>
Scriptlet	Contains a code fragment valid in the page scripting language.	<code><% code fragment of one or more lines %></code>
Include Directive	Includes a static file, parsing the file's JSP elements.	<code><%@ include file="relativeURL" %></code>
Page Directive	Defines attributes that apply to an entire JSP page.	<code><%@ 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"] %></code>
Taglib Directive	Defines a tag library and prefix for the custom tags used in the JSP page.	<code><%@ taglib uri="URIToTagLibrary" prefix="tagPrefix" %></code>
<code><tagPrefix:name></code>	Accesses a custom tag's functionality.	<code><tagPrefix:name attribute="value"+ ... /></code> <code><tagPrefix:name attribute="value"+ ... > other tags and data </tagPrefix:name></code>

JAVASERVER PAGES™ (JSP) SYNTAX

JSP 1.1

Element	Description	JSP Syntax	
<jsp:forward>	Forwards a client request to an HTML file, JSP file, or servlet for processing.	<pre><jsp:forward page="{relativeURL <%= expression %>}" { /> [<jsp:param name="parameterName" value="{parameterValue <%= expression %>}" />]+ }</jsp:forward> }</pre>	
<jsp:getProperty>	Gets the value of a Bean property so that you can display it in a result page.	<pre><jsp:getProperty name="beanInstanceName" property="propertyName" /></pre>	
<jsp:include>	Includes a static file or sends a request to a dynamic file.	<pre><jsp:include page="{relativeURL <%= expression %>}" flush="true" { /> [<jsp:param name="parameterName" value="{parameterValue <%= expression %>}" />]+ }</jsp:include> }</pre>	
<jsp:plugin>	Downloads plug-in software to the Web browser to execute an applet or Bean.	<pre><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></pre>	
<jsp:setProperty>	Sets a property value or values in a Bean.	<pre><jsp:setProperty name="beanInstanceName" { property="*" property="propertyName" [param="parameterName"] property="propertyName" value="{string <%= expression %>}" } /></pre>	
<jsp:useBean>	Locates or instantiates a Bean with a specific name and scope.	<pre><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> }</pre>	
Implicit Objects		Scope	Some Useful Methods (see class or interface for others)
request	Subclass of <i>javax.servlet.ServletRequest</i>	Request	getAttribute, getParameter, getParameterNames, getParameterValues
response	Subclass of <i>javax.servlet.ServletResponse</i>	Page	<i>Not typically used by JSP page authors</i>
pageContext	<i>javax.servlet.jsp.PageContext</i>	Page	findAttribute, getAttribute, getAttributesScope, getAttributeNamesInScope
session	<i>javax.servlet.http.HttpSession</i>	Session	getId, getValue, getValueNames, putValue
application	<i>javax.servlet.ServletContext</i>	Application	getMimeType, getRealPath
out	<i>javax.servlet.jsp.JspWriter</i>	Page	clear, clearBuffer, flush, getBufferSize, getRemaining
config	<i>javax.servlet.ServletConfig</i>	Page	getInitParameter, getInitParameterNames
page	<i>java.lang.Object</i>	Page	<i>Not typically used by JSP page authors</i>
exception	<i>java.lang.Throwable</i>	Page	getMessage, getLocalizedMessage, printStackTrace, toString