## JavaServer<sup>™</sup> Pages Standard Tag Library (JSTL) syntax reference

) version 1.0 )



STL Expression Lar						
mplicit Object pageScope	Contains variables which have the scope page.					
requestScope	variables which have the scope request.					
essionScope	variables which have the scope session.	e e				Schulung "Servlets und JavaServer™ Pages JSi
applicationScope pageContext	variables which have the scope of the ap JSP PageContext object	pneauon.	Orientation i	in Objects	GmbH	0910.02.15, 2021.04.15, 0607.07.15,0910.11.
ookie	Cookie values		Weinheimer	Str.68 v	www.oio.de	
aram	Request parameters as strings.		68309 Manni	neim i	info@oio.de	Schulung "JavaServer Face
eader eaderValues	HTTP request headers as strings. HTTP request headers as a collection of	strings	Schulung, B	oratung	ind	1113.02.15, 2224.04.15, 0810.07.15, 1113.11.
nitParam	Context initialization parameters		Entwicklung			
				touvu	und Ame	
STL Operators Comparison operators:	== / eq, != / ne, < / lt, > / gt, <= / le, >=	/ ga				
ogical operators:	&& / and,   / or, !/ not	, ge				
Arithmetic operators:	+, -, *, /, % / mod					
Property access:		a named property. To access numbered or named properties use the	bracket operator (	, [] ).		
	Example: \$(user.name), \${row[0]} or Use the empty operator to determine w	\${order.items.price} whether a collection or string is empty or null . Example: <c:if test="5"><c:if test="5"><c.if test="5"><c:if test="5"><c.if test="5&lt;/th&gt;&lt;th&gt;\${emnty_nageScon&lt;/th&gt;&lt;th&gt;e users)"></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c.if></c:if></c.if></c:if></c:if>				
			(	, .		
egend	All tags are case sensitive. A pair of sing plain text = required italics = use	le quotes is equivalent to a pair of double quotes. Spaces are not allo er-defined <u>value</u> = default value <u>attribute</u> = using a bo				
	{ } = required choice   = or	[] = optional = list of items		ex.= exported		sc. = scoped
ction	Description	Syntax	Attributes			
	eneral Purpose Actions	Cymax	пате	dyn*	type	description
ce:out>	Evaluates an expression and outputs the	<pre><c:out [escapexml="{true false}" ]<="" pre="" value="value"></c:out></pre>	value	true	Object	Expression to be evaluated.
	result to the current JspWriter object.	[ <u>default</u> ="defaultValue"] />	escapeXml	true	boolean	Determines whether <,>,&,'," in the result should be converted to their corresponding character ent codes.
			default	true	Object	Default value if the resulting value is null.
c:set>		<c:set <="" td="" value"="" var="varName"><td>value</td><td>true</td><td>Object</td><td>Expression to be evaluated.</td></c:set>	value	true	Object	Expression to be evaluated.
	property of a target object.	[scope="{page request session application}"]/> or	var	false false	String	Scoped variable to hold the value specified in the action.  Scope for var.
		<pre><c:set "value"="" property="propertyName" target="target" value=""></c:set></pre>	scope target	true	String Object	Scope for var.  JavaBeans object with setter property, or to a java.util.Map object.
		F. Frank Frankrich	property	true	String	Name of the property to be set in the target object.
c:remove>	Removes a scoped variable.	<c:remove <="" td="" var="varName"><td>var</td><td>false</td><td>String</td><td>Name of the scoped variable to be removed.</td></c:remove>	var	false	String	Name of the scoped variable to be removed.
		[scope="{page request session application}"]/>	scope	false	String	Scope for var.
<e:catch></e:catch>	Catches a java.lang.Throwable thrown	<c:catch [var="varName" ]=""></c:catch>	var	false	String	Variable to expose information about error.
ore Tag Library, Co	by any of its nested actions.	nested actions	nama	d*	form	description
ore Tag Library - Co c:if>	Evaluates its body content if the	<pre><c:if [var="varName" ]<="" pre="" test="testCondition"></c:if></pre>	name test	dyn* true	type boolean	description  Test condition that determines whether or not the body content should be processed.
	expression is true.	[scope="{page request session application}"]>	var	false	String	Name of the exported scoped variable for the resulting test condition value.
		body content	Scope Constraints: If so	false	String	Scope for var.
	B 11 d 1 1 6 1 B		Constraints: If so			
c:choose> c:when>	Provides the context for mutually exclusive conditional execution.	<pre><c:choose> <c:when test="testCondition1">body content</c:when></c:choose></pre>	test	true	boolean	Test condition - determines whether or not the body content should be processed.
c:otherwise>		<pre><c:when test="testCondition2">body content</c:when></pre>	Constraints: The	e body of <c:c< td=""><td>choose&gt; can only</td><td>y contain 1 or more <c:when> actions (must all appear before <c:otherwise>) and 0 or 1</c:otherwise></c:when></td></c:c<>	choose> can only	y contain 1 or more <c:when> actions (must all appear before <c:otherwise>) and 0 or 1</c:otherwise></c:when>
		<c:otherwise>conditional block </c:otherwise>	<c:otherwise> a</c:otherwise>	action (must b	e the last action)	
ore Tag Library - Ite c:forEach>		<c:foreach <="" [var="varName" ]="" items="collection" td=""><td><i>name</i> var</td><td>dyn* false</td><td>type String</td><td>description</td></c:foreach>	<i>name</i> var	dyn* false	type String	description
e:iorEacn>	Repeats its nested body content over a collection of objects, or repeats it a fixed		Vai	laise	String	Name of the exported scoped variable for the current item. Its type depends on the object of the underlying collection.
	number of times.	[begin="begin"][end="end"][step="step"]>	items	true	(see descr.)	Collection of items to iterate over. Types can contain all supported types.
		body content	varStatus	false	String	Name of the exported scoped variable for the status of the iteration.  Iteration begins (ands at the specified index (items) or at the specified value.
			begin / end step	true true	int int	Iteration begins / ends at the specified index (items) or at the specified value.  Iteration will only process every step items.
						d end must be specified.
<c:fortokens></c:fortokens>	Iterates over tokens, separated by the	<c:fortokens <="" delims="delimiters" items="stringOfTokens" td=""><td>var</td><td>false</td><td>String</td><td>Name of the exported scoped variable for the current item of the iteration.</td></c:fortokens>	var	false	String	Name of the exported scoped variable for the current item of the iteration.
	supplied delimiters.	[var="varName"][varStatus="varStatusName"]	items delims	true true	String	String of tokens to iterate over.  The set of delimiters (the characters that separate the tokens in the string)
		[begin="begin"] [end="end"] [step="step"]> body content	varStatus	false	String String	The set of delimiters (the characters that separate the tokens in the string).  Name of the exported scoped variable for the status of the iteration.
			begin / end	true	int	Iteration begins / ends at the token located at the specified index.
			step	true	int	Iteration will only process every step tokens.
ore Tag Library - UI c:redirect>	RL Related Actions Sends an HTTP redirect to the client.	<c:redirect [context="context" ]="" url="value"></c:redirect>	name url	dyn* true	type String	description The URL of the resource to redirect to.
reuiree>	School and the finance to the chem.	optional <c:param> subtags within the body</c:param>	context	true	String	Context name when specifying a relative URL that belongs to a foreign context.
c:param>	Adds request parameters to a URL.	<c:param name="name" value="value"></c:param>	name	true	String	Name of the query string parameter.
			value	true	String	Value of the parameter.
c:import>	Imports the content of a URL-based	<pre><c:import [context="context" ]<="" ][var="varName" pre="" url="url"></c:import></pre>	url	true	String	The URL of the resource to import.
	resource.	[scope="{page request session application}"] [varReader="varReaderName"]	context	true false	String String	Context name when specifying a relative URL that belongs to a foreign context.  Name of the exported scoped variable for the resource's content.
		[charEncoding="charEncoding"]/>	scope	false	String	Name of the exported scoped variable for the resource's content.  Scope for var.
			charEncoding	true	String	Character encoding of the content at the input resource.
		optional <c:param> subtags within the body</c:param>	varReader	false	String	Name of the exported scoped variable for the resource's content. (Type: Reader)
annels	Puilde a LIDI with the	count volvo-2ndro 2 footest 2 constant 2	Constraints: If v			scope must not be specified.
e:url>	Builds a URL with the proper rewriting rules applied.	<pre><c:url [context="context" [scope="{page request session application}" ]="" ][var="varName" value"value"=""></c:url></pre>	value	true true	String String	URL to be processed.  Name of the ex. sc. variable for the resource's content.
	11		var	false	String	Name of the ex. sc. variable for the processed url.
		optional <c:param> subtags within the body</c:param>	scope	false	String	Scope for var.
QL Actions			name	dyn*	type	description
sql:query>	Queries a database.	<sql:query <="" sql="sqlQuery" td="" var="varName"><td>sql</td><td>true</td><td>String</td><td>SQL query statement.</td></sql:query>	sql	true	String	SQL query statement.
		[scope="{page request session application}"] [dataSource="dataSource"]	dataSource	true S	String, javax.sql. DataSource	JNDI Data source
		[maxRows="maxRows"]	maxRows	true	int	The maximum number of rows to be included in the query result.
		[startRow="startRow"]/>	startRow	true	int	The returned Result object includes the rows starting at the specified index.
		antiqual coolingrams and an other de-	var	false	String	Name of the exported scoped variable for the query result.
	Country or COL PIGERS LINE :	optional <sql:param> actions within the body</sql:param>	scope	false	String	Scope for var.
sql:update>	Executes an SQL INSERT, UPDATE, or DELETE statement. (and SQL	<sql:update <u="">sol="sqlUpdate" [dataSource="dataSource"] [var="varName"]</sql:update>	sql dataSource	true true S	String String, javax.sql.	SQL update statement. JNDI Data source
	statements that return nothing)	[scope="{page request session application}"]/>	January MICC	uac c	DataSource	
			var	false	String	Name of the exported scoped variable for the result of the database update.(Integer)
		optional <sql:param> actions within the body</sql:param>	scope	false	String	Scope for var.
sql:transaction>	Establishes a transaction context for	<sql:transaction [datasource="dataSource" ]<="" td=""><td>dataSource</td><td>true S</td><td></td><td>JNDI Data source</td></sql:transaction>	dataSource	true S		JNDI Data source
	<sql:query> and <sql:update> subtags.</sql:update></sql:query>	[isolation=isolationLevel]> <sql:query> and <sql:update> statements</sql:update></sql:query>	isolation	true	DataSource String	Max contain read_committed   read_uncommitted   repeatable_read   serializable.
		<sqi:query> ana <sqi:upaate> statements </sqi:upaate></sqi:query>				l:update> actions must not specify a dataSource attribute.
sql:setDataSource>	Exports a data source either as a scoped	<sql:setdatasource "="" td="" {datasource=""  <=""><td>dataSource</td><td></td><td></td><td>JNDI Data source</td></sql:setdatasource>	dataSource			JNDI Data source
	variable or as the data source	[url="jdbcUrl"] [driver="driverClassName"]			DataSource	
	configuration variable	[user="userName"]	driver	true	String	Class name of the JDBC driver.
	(javax.servlet.jsp.jstl.sql.dataSource).	[password="password "]} [var="varName "]	url user	true	String	JDBC database URL. JDBC database user
		[scope="{page request session application}"]/>	password	true true	String String	JDBC database user  JDBC user password
			var	false	String	Name of the ex. sc. variable for the data source specified. Type: String / DataSource.
			scope	false	String	Scope for var.
			scope			
sql:param>	Sets the values of parameter markers	<sql:param <u="">value="value"/&gt;</sql:param>	value	true	Object	Parameter value.
sql:param>	("?") in a SQL statement.		value	true	Object	
sql:param> sql:dateParam>		<sql:param <u="">value="value"/&gt; <sql:dateparam type="(&lt;u&gt;timestamp&lt;/u&gt; time date " value="value"></sql:dateparam></sql:param>				Parameter value.  Parameter value for DATE, TIME, or TIMESTAMP column. One of "date", "time" or "timestamp".

<sup>\*</sup> The "dyn" (dynamic) column title presents the rtexprvalue element defined in a TLD. It captures the dynamic behaviour of an attribute for both library versions.

 $\textit{The content is based on the JavaServer}^{\text{TM}} \ \textit{Pages Standard Tag Library specification, version 1.0.(http://java.sun.com)}$ 



nat Lan Library - V	Description	Syntax	Attributes				
x:out>	CML Core Actions  Evaluates an XPath expression and	<pre><x:out <="" pre="" select="XPathExpression"></x:out></pre>	name select	dyn* false	type String	description XPath expression.	
alloute	outputs the result to the current JspWriter object.	[escapeXml="{ <u>true</u>  false}"]/>	escapeXml	true	boolean	Determines whether <,>,&,'," in the result should be converted to their corresponding character entity codes.	
<x:parse></x:parse>	Parses an XML document.	<pre><x:parse <="" pre="" xml="XMLDocument"></x:parse></pre>	xml	true	String, Reader	Source XML document to be parsed.  The greatent identifier (LID) for position the	
		{var="var" [scope={page request session application}]  varDom="var" [scopeDom="scope"]}	systemId	true	String	The system identifier (URI) for parsing the XML document.	
		[systemId="systemId"]	filter	true	org.xml.sax. XMLFilter	Filter to be applied to the source document.	
		[filter="filter"]/>	var	true	String	Name of the exported scoped variable for the parsed XML document.	
			scope varDom	false false	String String	Scope for var.  See var. The type of the sc. variable is org.w3c.dom.Document.	
			scopeDom	false	String	Scope for varDom.	
<x:set></x:set>	Evaluates an XPath expression and stores the result into a scoped variable.	<pre><x:set [scope="{page request session application}" ]="" select="XPathExpression" var="varName"></x:set></pre>	select var	false false	String String	XPath expression to be evaluated.  Name of the ex. sc. variable to hold the value specified in the action.	
	stores the result into a scoped variable.	[scope= {page}request session application} y>	scope	false	String	Scope for var.	
	ML Flow Control Actions		name	dyn*	type	description	
<x:if></x:if>	Evaluates the XPath expression specified in the select attribute and	<x:if [var="varName" ]<br="" select="XPathExpression">[scope="{page request session application}"]&gt;</x:if>	select var	false false	String String	The test condition that tells whether or not the body content should be processed.  Name of the ex. sc. variable for the resulting value of the condition. (Boolean)	
	renders its body content if the	body content	scope	false	String	Scope for var.	
<x:when></x:when>	expression evaluates to true.  Provides the context for mutually	<x:choose></x:choose>	Constraints: If scop select	false	String	Test condition that determines whether or not the body content should be processed.	
	exclusive conditional execution.	<x:when select="XPathExpr">body content </x:when>	Constraints: The b	ody of <x< td=""><td>c:choose&gt; can oni</td><td>y contain:</td></x<>	c:choose> can oni	y contain:	
		<pre><x:otherwise>conditional block </x:otherwise> </pre>		1 or more <x:when> actions (must all appear before <c:otherwise>) 0 or 1 <x:otherwise> action (must be the last action)</x:otherwise></c:otherwise></x:when>			
<x:foreach></x:foreach>	Evaluates the given XPath expression	<x:foreach [var="varName" ]="" select="XPathExpression"></x:foreach>	var	false	String	Name of the exported scoped variable for the current item of the iteration.	
	and repeats its nested body content over the result.		select	false	String	XPath expression to be evaluated.	
ML Tag Library - Y	ML Transform Actions		name	dyn*	type	description	
x:transform>	Applies an XSLT stylesheet	<x:transform< td=""><td>xml</td><td>true</td><td>String, Reader,</td><td>Source XML document to be transformed.</td></x:transform<>	xml	true	String, Reader,	Source XML document to be transformed.	
	transformation to an XML document.	<u>xml</u> ="XMLDocument" xslt="XSLTStylesheet" [xmlSystemId="XMLSystemId"]			javax.xml. transform.Source	Type also: org.w3c.dom.Document, or object exported by <x:parse>, <x:set>.</x:set></x:parse>	
		[xsltSystemId="XSLTSystemId"]	xslt vmlSvetamId	true	see above (xml)	Transformation stylesheet as a String, Reader, or Source object.	
		[{var="varName" [scope="{ <u>page</u>  request session application}"]	xmlSystemId xsltSystemId	true	String String	The system identifier (URI) for parsing the XML document.  The system identifier (URI) for parsing the XSLT stylesheet.	
		result="resultObject"}]/>	var	false false	String	Name of the ex. sc. variable for the transformed XML document.(org.w3c.dom.Document)	
		optional <x:param> subtags within the body</x:param>	scope result	true	String javax.xml.	Scope for var.  Object that captures or processes the transformation result.	
vinarama	Sat transformation passes M.		name	franc	transform.Result	Name of the transformation parameter	
x:param>	Set transformation parameters. Nested	<x:param <u="" name="name">value="value"/&gt;</x:param>	name value	true true	String Object	Name of the transformation parameter. Value of the parameter.	
	tting Tag Library - Internationali		name	dyn*	type	description	
fmt:setLocale>	Stores the specified locale in the javax.servlet.jsp.jstl.fmt.locale	<pre><fmt:setlocale [scope="{page request session application}" [variant="variant" ]="" value="locale"></fmt:setlocale></pre>	value	true	String,	A String value is interpreted as the printable representation of a locale. Language and country codes must be separated by hyphen ('-') or underscore ('_').	
	configuration variable.	fearly (France, and any any and any any and any any and any	variant	true	String	Vendor- or browser-specific variant.	
			scope	false	String	Scope of the locale configuration variable.	
fmt:bundle>	Creates an i18n localization context to be used by its body content.	<pre><fmt:bundle [prefix="prefix" ]="" basename="basename"> body content </fmt:bundle></pre>	basename prefix	true	String String	Resource bundle base name. (fully-qualified)  Prefix to be prepended to the value of the message key of any nested <fmt:message> action.</fmt:message>	
fmt:setBundle>		<pre><fmt:setbundle [var="varName" ]<="" basename="basename" pre=""></fmt:setbundle></pre>	basename	true	String	Resource bundle base name. (fully-qualified)	
	stores it in the scoped variable or the localizationContext.	[scope="{page request session application}"]/>	var	false	String	Name of the exported scoped variable which stores the i18n localization context.	
	iocanzation context.		scope	false	String	Scope of var or the localization context configuration variable.	
fmt:message>	Looks up a localized message in a resource bundle.	<fmt:message [handle="" key="" pr<="" property="" td="" wessage=""  =""><td>key bundle</td><td>true true</td><td>String Localization</td><td>Message key to be looked up.  Localization context in whose resource bundle the message key is looked up.</td></fmt:message>	key bundle	true true	String Localization	Message key to be looked up.  Localization context in whose resource bundle the message key is looked up.	
	resource buildie.	[bundle="resourceBundle"][var="varName"] [scope="{page request session application}"]/>			Context		
		option key and/or	var scope	false false	String String	Name of the exported scoped variable Scope for var.	
		optional <fmt:param> within the body</fmt:param>	Constraints: If scop	e is speci			
	tting Tag Library - Internationali	• /	name	dyn*	type	description	
<fmt:param></fmt:param>	Supplies a single parameter within a <fmt:message> action.</fmt:message>	<fmt:param_value="messageparameter"></fmt:param_value="messageparameter">	value	true	Object	Argument used for parametric replacement.	
						Name of character encoding to be applied when decoding request parameters.	
fmt:requestEncoding>		<fmt:requestencoding [value="charsetName" ]=""></fmt:requestencoding>	value	true	String	Name of character encoding to be applied when decoding request parameters.	
8n-capable format	Sets the request's char. encoding.  tting Tag Library - Formatting A	ctions	name	dyn*	type	description	
8n-capable format	Sets the request's char. encoding.  tting Tag Library - Formatting A  Specifies the time zone in which time information is to be formatted or parsed	ctions <fmt:timezone value="timeZone"></fmt:timezone>				2 22 2	
8n-capable format fmt:timeZone>	Sets the request's char, encoding.  tting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.	ctions <fnst:timezone value="timeZone"> body content </fnst:timezone>	name value	dyn* true	type String, java. util.TimeZone	description The time zone. A String value is interpreted as a time zone ID.	
8n-capable format fmt:timeZone>	Sets the request's char. encoding.  tting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a	<pre>ctions  body content  </pre>	name	dyn*	type String, java. util.TimeZone String, java.	description	
8n-capable format fmt:timeZone>	Sets the request's char, encoding.  tting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.	ctions <fnst:timezone value="timeZone"> body content </fnst:timezone>	name value	dyn* true	String, java. util.TimeZone String, java. util.TimeZone String	description  The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  Name of the exported scoped variable which stores the time zone of type java.util.TimeZone.	
8n-capable formate fmt:timeZone> fmt:setTimeZone>	Sets the request's char. encoding.  Itting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a scoped variable or the time zone configuration variable.	ctions <pre><int:timezone value="timeZone"> body content  </int:timezone></pre> <pre><int:timezone> </int:timezone></pre> <pre><int:timezone [scope="[page request session application]" [var="varName" ]="" value="timeZone"></int:timezone></pre>	value  value  var scope	dyn* true true false false	String, java. util.TimeZone String, java. util.TimeZone String String	description         The time zone. A String value is interpreted as a time zone ID.         The time zone. A String value is interpreted as a time zone ID.         Name of the exported scoped variable which stores the time zone of type java.util.TimeZone.         Scope of var or the time zone configuration variable.	
8n-capable formati fint:timeZone> fint:setTimeZone>	Sets the request's char. encoding.  Iting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a scoped variable or the time zone	<pre>ctions </pre> <pre><int:timezone value="timeZone"> body content  </int:timezone></pre> <pre>/Int:timeZone&gt; </pre> <pre><int:settimezone [scope="[page request session application]" [var="varName" ]="" value="timeZone"></int:settimezone> </pre> <pre><int:formatnumber <="" pre="" value="numeric Value"></int:formatnumber></pre>	name value  value  var	dyn* true	String, java. util.TimeZone String, java. util.TimeZone String	description  The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  Name of the exported scoped variable which stores the time zone of type java.util.TimeZone.	
8n-capable formati fint:timeZone> fint:setTimeZone>	Sets the request's char. encoding.  Itting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a scoped variable or the time zone configuration variable.  Formats a numeric value in a locale-	ctions <pre>cm:timeZone value="timeZone"&gt; body content  </pre> <pre>cfmtsterCone&gt; </pre> <pre>cfmtsetTimeZone value="timeZone" [var="varName"] [scope="fpage]request session application]"]&gt; </pre> <pre>cfmt:formatNumber value="numeric Value" [type="[number[currency percent]"] [pattern="customPattern"]</pre>	value  var scope value type pattern	dyn* true  true  false false true true true	Iype String, java. util.TimeZone String, java. util.TimeZone String String String String, Number String String	description           The time zone. A String value is interpreted as a time zone ID.           The time zone. A String value is interpreted as a time zone ID.           Name of the exported scoped variable which stores the time zone of type java.util.TimeZone.           Scope of var or the time zone configuration variable.           Numeric value to be formatted.           Specifies whether the value is to be formatted as number, currency, or percentage.           Custom formatting pattern.	
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8n-capable formati fint:timeZone> fint:setTimeZone> fint:formatNumber>	Sets the request's char. encoding.  Iting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a scoped variable or the time zone configuration variable.  Formats a numeric value in a locale- sensitive or customized manner as a number, currency, or percentage.  Parses the string representation of numbers, currencies, and percentages that were formatted in a locale-sensitive or customized manner.	<pre>ctions </pre> <pre>cfint:timeZone value="timeZone"&gt; body content </pre> <pre>/fmt:timeZone value="timeZone" {fmt:timeZone value="timeZone" [var="varName"] [scope="[page]request session application]" &gt; </pre> <pre>/fmt:formatNumber value="numeric Value" [type="[number]currency percent]"] [pattern="custonPattern"] [currency Code="currency Symbol"] [groupingUsed="furge[false]"] [maxIntegerDigits="maxIntegerDigits"] [maxIntegerDigits="minIntegerDigits"] [maxFractionDigits="max IntegerDigits"] [maxFractionDigits="minFractionDigits"] [var="varName"] [scope="[number]currency percent]"] [pattern="custonPattern"] [pattern="custonPattern"] [pattern="custonPattern"] [scope="[number]currency percent]"] [pattern="custonPattern"] [scope="[number]currency percent]"] [var="varName"] [scope="[number]currency percent]"] [stope="[number]currency percent]"] [pattern="custonPattern"] [stope="[number]currency percent]"] [integerOnj="(truefalse)"] [var="varName"] [stope="[dedault]short medium long[full]"] [timeStyle="[default]short medium long[full]"] [timeStyle="[default]short medium long[full]"] [timeStyle="[default]short medium long[full]"] [timeStyle="[default]short medium long[full]"] [timeCone="[custonPattern"]</pre>	value  value  var  scope  value type pattern currencyCode currencySymbol groupingUsed maxIntegerDigits maxIractionDigits milraceirolDigits var scope pattern parseLocale integerOnly var scope constraints: If scop value type type type type type type timeSyne timeZone var	true  false false true true true true true true true tru	String, java. util.TimeZone String, java. util.TimeZone String	The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  Name of the exported scoped variable which stores the time zone of type java.util.TimeZone. Scope of var or the time zone configuration variable.  Numeric value to be formatted.  Specifies whether the value is to be formatted as number, currency, or percentage. Custom formatting pattern.  ISO 4217 currency code. Applied only when formatting currencies: ignored otherwise. Specifies whether the formatted output will contain any grouping separators. Max. number of digits in the integer portion.  Min. number of digits in the fractional portion.  Min. number of digits in the fractional portion.  Min. number of digits in the fractional portion.  Name of the exported scoped variable.  Scope of var.  String to be parsed.  Specifies whether the value attribute should be parsed as a number, currency, or percentage. Custom formatting pattern.  Locale whose default formatting pattern is to be used.  Specifies whether just the integer portion of the given value should be parsed. Name of the exported scoped variable which stores the parsed result (Number). Scope of var.  be a specified.  Date and/or time to be formatted.  Specifies whether the time, the date, or both are to be formatted. Predefined formatting syle for dates.  Predefined formatting syle for dates.  Predefined formatting syle for dates.  Time zone in which to represent the formatted time.	
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cont:requestEncoding> 8n-capable format. cont:timeZone> cont:setTimeZone> cont:formatNumber> cont:parseNumber> cont:parseNumber> cont:parseDate>	Sets the request's char. encoding.  Iting Tag Library - Formatting A Specifies the time zone in which time information is to be formatted or parsed in its body content.  Stores the specified time zone in a scoped variable or the time zone configuration variable.  Formats a numeric value in a locale- sensitive or customized manner as a number, currency, or percentage.  Parses the string representation of numbers, currencies, and percentages that were formatted in a locale-sensitive or customized manner.  Allows the formatting of dates and times in a locale-sensitive or customized manner.	<pre>ctions </pre> <pre>cfint:timeZone value="timeZone"&gt; body content </pre> <pre>/fmt:timeZone value="timeZone"</pre>	value  value  value  var  scope  value type pattem currencyCode currencySymbol grouping Used maxIntegerDigits maxFractionDigits minfractionDigits var  scope  value type pattem parseLocale integerOnly var scope  Constraints: If scop value type pattem timeZone  var  scope  value type dateStyle timeStyle pattem timeZone  var  scope  value type pattem timeZone  var  scope value type pattem timeZone  var  scope value type pattem timeZone  var  scope value type pattem timeZone  var  scope value type pattem timeStyle pattem timeZone	dyn** true  false false false true true true true true true true tru	String, java. util.TimeZone String, java. util.TimeZone String, java. util.TimeZone String	The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  The time zone. A String value is interpreted as a time zone ID.  Name of the exported scoped variable which stores the time zone of type java.util.TimeZone. Scope of var or the time zone configuration variable.  Numeric value to be formatted.  Specifies whether the value is to be formatted as number, currency, or percentage.  Custom formatting pattern.  Sto 4217 currency code. Applied only when formatting currencies; ignored otherwise.  Currency symbol. Applied only when formatting currencies; ignored otherwise.  Specifies whether the formatted output will contain any grouping separators.  Max. number of digits in the integer portion.  Min. number of digits in the fractional portion.  Min. number of digits in the fractional portion.  Name of the exported scoped variable.  Scope of var.  String to be parsed.  Specifies whether the value attribute should be parsed as a number, currency, or percentage.  Custom formatting pattern.  Locale whose default formatting pattern is to be used.  Specifies whether just the integer portion of the given value should be parsed.  Name of the exported scoped variable which stores the parsed result (Number).  Scope of var.  Date and/or time to be formatted.  Specifies whether the time, the date, or both are to be formatted.  Predefined formatting style for dates.  Predefined formatting style for dates.  Predefined formatting style for dates.  Time zone in which to represent the formatted time.  Name of the exported scoped variable which stores the formatted result as a String.  Scope of var.  Date string to be parsed.	
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<sup>\*</sup> The "dyn" (dynamic) column title presents the rtexprvalue element defined in a TLD. It captures the dynamic behaviour of an attribute for both library versions.

 $\textit{The content is based on the JavaServer}^{\text{TM}} \ \textit{Pages Standard Tag Library specification, version 1.0.(http://java.sun.com)}$