

# JSP Standard Tag Library

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## Agenda

- **JSTL Introduction**
- **Custom JSTL tags**

## Why JSTL?

- What if we really want is to print a property of a property??? For e.g. What if we want to print the name of Person's dog??

### Using scripting

```
<html>
```

```
<body>
```

```
<%=((foo.Person)    request.getAttribute("person")).getDog().getName() %>
```

```
<body>
```

```
</html>
```

## Why JSTL?

### Using standard actions (if scripting is banned)

```
<html>
```

```
<body>
```

```
<jsp:useBean id="person" class="foo.Person" scope="request" />
```

```
    Dog name is <jsp:getProperty name="person" property="dog" />
```

```
</body>
```

```
</html>    O/p in browser window: Dog name is foo.Dog@228994
```

- The `<jsp:getProperty>` lets you access the properties of the bean attribute.
- There is no capability for nested properties, ( a property of a property)

## JSTL

- 1. JSTL Core Tags:** JSTL Core tags provide support for iteration, conditional logic, catch exception, url, forward or redirect response etc. To use JSTL core tags, we should include it in the JSP page.
- 2. JSTL Formatting and Localization Tags:** JSTL Formatting tags are provided for formatting of Numbers, Dates and i18n support through locales and resource bundles.
- 3. JSTL SQL Tags:** JSTL SQL Tags provide support for interaction with relational databases such as Oracle, MySQL etc. Using JSTL SQL tags we can run database queries.
- 4. JSTL XML Tags:** JSTL XML tags are used to work with XML documents such as parsing XML, transforming XML data and XPath expressions evaluation.
- 5. JSTL Functions Tags:** JSTL tags provide a number of functions that we can use to perform common operation, most of them are for String manipulation such as String Concatenation, Split String etc.

## JSTL Core Tags

Tags	Description
<code>&lt;c:out&gt;</code>	To write something in JSP page, we can use EL also with this tag
<code>&lt;c:import&gt;</code>	Same as <code>&lt;jsp:include&gt;</code> or include directive
<code>&lt;c:redirect&gt;</code>	redirect request to another resource
<code>&lt;c:set&gt;</code>	To set the variable value in given scope.
<code>&lt;c:remove&gt;</code>	To remove the variable from given scope
<code>&lt;c:catch&gt;</code>	To catch the exception and wrap it into an object.
<code>&lt;c:if&gt;</code>	Simple conditional logic, used with EL and we can use it to process the exception from <code>&lt;c:catch&gt;</code>
<code>&lt;c:choose&gt;</code>	Simple conditional tag that establishes a context for mutually exclusive conditional operations, marked by <code>&lt;c:when&gt;</code> and <code>&lt;c:otherwise&gt;</code>

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## SQL Tags

Tags	Description
<a href="#"><u>&lt;sql:setDataSource&gt;</u></a>	Creates a simple DataSource suitable only for prototyping
<a href="#"><u>&lt;sql:query&gt;</u></a>	Executes the SQL query defined in its body or through the sql attribute.
<a href="#"><u>&lt;sql:update&gt;</u></a>	Executes the SQL update defined in its body or through the sql attribute.
<a href="#"><u>&lt;sql:param&gt;</u></a>	Sets a parameter in an SQL statement to the specified value.
<a href="#"><u>&lt;sql:dateParam&gt;</u></a>	Sets a parameter in an SQL statement to the specified java.util.Date value.
<a href="#"><u>&lt;sql:transaction &gt;</u></a>	Provides nested database action elements with a shared Connection, set up to execute all statements as one transaction.

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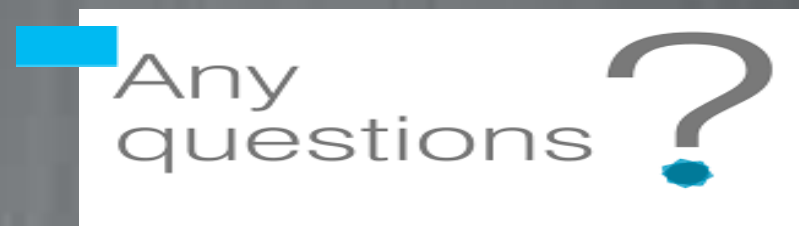
## Functions

Function	Description
<a href="#"><u>fn:contains()</u></a>	Tests if an input string contains the specified substring.
<a href="#"><u>fn:containsIgnoreCase()</u></a>	Tests if an input string contains the specified substring in a case insensitive way.
<a href="#"><u>fn:endsWith()</u></a>	Tests if an input string ends with the specified suffix.
<a href="#"><u>fn:escapeXml()</u></a>	Escapes characters that could be interpreted as XML markup.
<a href="#"><u>fn:indexOf()</u></a>	Returns the index withing a string of the first occurrence of a specified substring.
<a href="#"><u>fn:join()</u></a>	Joins all elements of an array into a string.

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Thank You!