Declare namespace

<html xmlns:th="http://www.thymeleaf.org">

Simple **Expression** Syntax

Variable Expressions

Spring Expression langage - OGNL expression

text

Selection Variable Expressions

Selection expressions. Will be executed on a previously selected object only.

```
<div th:object="${user}">
   <span th:text="*{firstName}">
   </span>
 </div>
```

Message Expressions

Message (i18n) expressions. Used to retrieve locale-specific messages from external sources

msg

Link URL Expressions

Link (URL) expressions. Used to build URLs

```
<a href="details.html"</pre>
   th:href="@{/images/test.png}">
     link
</a>
```

Literal **Expression** Syntax

```
Text literals : 'one text', 'Another one!'
Number literals: 0.34.3.0.12.3....
Boolean literals: true, false
Null literal : null
Literal tokens: one, sometext, main,...
```

Opérations Syntax

```
String concatenation : +
Literal substitutions : |name : ${name}|
Arithmetic operators : +, -, *, /, %
Binary operators : and, or, !, not
Comparators : >, <, >=, <=
Equality operators : ==, !=
If-then : (if) ? (then)
If-then-else : (if) ? (then) : (else)
Default : (value) ?: (defaultvalue)
```

Conditional Evaluation

Simple conditionnals

```
- if
    <span
      th:if="${condition}">view
    </span>
- if not
      th:if="${condition}">view
    </span>
```

Switch statements

```
<div th:switch="${user.role}">
 User is an administrator
 User is a manager
 User is some other thing
</div>
```

Iteration

Using th:each

```
<div th:each="val : ${myList}">
</div>
```

- Iterable values

- Iterable, Enumeration, Map with java.util.Map.Entry
- Any Arrays
- Anything else will be treated like a List with 1 object.

- Keeping iteration status

th:each attribute status var contains the following data:

- index : current iteration index (from 0) - count : current iteration index (from 1)
- size : size of the iterated list
- current : iter var for each iteration
- even / odd properties
- first : current is the first ?
- last : current is the last ?

<div th:each="val,iterStat : \${myList}"> </div>

Using th:switch

```
<div th:switch="${user.role}">
 I am admin
</div>
```

Fragments & template layout

Create fragment

```
<div th:fragment="copy">
 Random text
</div>
```

Fragment expressions

There are three different formats:

- "~{templatename::selector}" : Includes the fragment resulting from applying the specified Markup Selector on the template named templatename
- "~{templatename}" : Includes the complete template named templatename
- "::domselector" or "this::domselector": Includes the complete template named templatename

Insert / include fragment

th:insert is the simplest: it will simply insert the specified fragment as the body of its host tag.

```
<div th:insert="footer :: copy"></div>
```

th:replace actually replaces its host tag with the specified fragment.

<div th:replace="footer :: copy"></div>

Parametrizable fragment signatures

Fragments defined with th:fragment can Specify a set of parameters :

```
<div th:fragment="frag(onevar,twovar)">
 </div>
```

This require the use of one of these two syntaxes to call the fragment from th:include or th:replace :

```
<div th:include="::frag(${val1},${val2})">
</div>
```

Or give the param name, so order is not Important :

<div th:include="::frag(twovar=\${val2},</pre> onevar=\${val1})">

</div>

Removing template fragments

To remove some part of a template when Rendering it, use th:remove :

```
<div th:remove="param">
   Some static text
</div>
```

Param must be replaced by one of :

- all: Remove both the containing tag and all its children.
- body: Do not remove the containing tag. but remove all its children.
- tag: Remove the containing tag, but do not remove its children.
- all-but-first : Remove all children of the containing tag except the first
- none : Do nothing. This value is useful for dynamic evaluation

Using **texts**

Escaped Text

Will not accept html taas, will convert each character into html special

text

Unescaped Text

Will accept html tags

text

Local Variables

Thymeleaf offers a way to declare local variables using the th:with attribute

```
<div th:with="firstPer=${persons[0]}">
    The name of the first person is
    <span th:text="${firstPer.name}">
     Julius Caesar
    </span>.
  </div>
```

Or with multiple local variables :

```
<div th:with="firstPer=${persons[0]}.</pre>
              secondPer=${persons[1]}">
</div>
```

Thymeleaf tags

th:abbr th:accept th:accept-charset th:accesskev th:action th:align th:alt th:archive th:audio th:autocomplete th:axis th:background th:bgcolor th:border th:cellpadding th:cellspacing th:challenge th:charset th:cite th:class th:classid th:codebase th:codetype th:cols th:colspan th:compact th:content th:contenteditable th:contextmenu th:data th:datetime th:dir th:draggable th:dropzone

th:form th:formaction th:formenctype th:formmethod th:formtarget th:frame th:frameborder th:headers th:height th:high th:href th:hreflang th:hspace th:http-equiv th:icon th:id th:keytype th:kind th:label th:land th:list th:longdesc th:low th:manifest th:marginheight th:marginwidth th:max th:maxlength th:media th:method th:min th:name th:optimum th:pattern th:placeholder th:poster

th:preload th:radiogroup th:rel th:rev th:rows th:rowspan th:rules th:sandbox th:scheme th:scope th:scrolling th:size th:sizes th:span th:spellcheck th:src th:srclang th:standby th:start th:step th:style th:summary th:tabindex th:target th:title th:type th:usemap th:value th:valuetype th:vspace th:width th:wrap th:xmlbase th:xmllang th:xmlspace

Attribute Precedence

1. Fragment inclusion
 th:insert

th:replace

2. Fragment iteration

th:each

3. Conditional evaluation

th:if th:unless th:switch th:case

4. Local variable definition

th:object

5. General attribute modification

th:attr th:attrprepend th:attrappend

6. Specific attribute modification

th:value th:href th:src

7. Text (tag body modification)

th:text th:utext

8. Fragment specification

th:fragment

9. Fragment removal

th:remove

Inlining

Expression inlining

- [[...]]: considered inlined escaped text expressions in Thymeleaf, can Contains anything that can be in a th:text.
- [(...)]: considered inlined unescaped text expressions in Thymeleaf, can Contains anything that can be in a th:utext.
- th:inline="none" : Disable the inlining feature for the content.

```
  A double array looks like this:
  [[1, 2, 3]
```

Javascript inlining

- th:inline="javascript" : enable the Javascript inlining feature

```
<script th:inline="javascript">
...
var username = [[${user.name}]];
...
</script>
```

Javascript inlining is intelligent, it will Convert all these types to javascript :

Strings, Numbers, Booleans Arrays, Collections, Maps Beans (with getter and setter)

Comments

th:for

th:enctype

```
<!-- Classic comment -->
```

<!--/* This code will be removed at Thymeleaf parsing time!
*/-→

<!--/*/ Special comment blocks marked to
Be comments for html static but normal
markup for Thymeleaf
/*/-->

Blocks

```
<th:block th:each="var : ${myList}">
...
</th:block>
```

Spring integration

Maven dependency

<dependency>
 <groupId>org.thymeleaf</groupId>
 <artifactId>thymeleaf-spring4</artifactId>
 <version>2.1.4.RELEASE</version>
</dependency>

Bean configuration (by default template resolver looks in resources/templates)

@Bean
public SpringResourceTemplateResolver templateResolver(){...}
@Bean
public SpringTemplateEngine templateEngine(){...}

Eclipse Extension

The Thymeleaf plugin for Eclipse IDE adds content assist features that make working in Thymeleaf templates nicer and much more Comfortable.

Thymeleaf-extras-eclipse-plugin

Credits

Sources: github.com/grzi/cheatSheets

All the content is taken from the thymeleaf documentation :

www.thymeleaf.org/doc/tutorials/3.0/usingthymeleaf.html