



**Thymeleaf**

# Basic Syntax

- 기본 표현:
  - » Variable Expressions: `${...}`
  - » Selection Variable Expressions: `*{...}`
  - » Message Expressions: `#{...}`
  - » Link URL Expressions: `@{...}`
  - » Fragment Expressions: `~{...}`
- 데이터 리터럴
  - » 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,...
- 문자열 연산
  - » String concatenation: +
  - » Literal substitutions: |The name is \${name}|

# Basic Syntax

- 수치 연산:
  - » Binary operators: +, -, \*, /, %
  - » Minus sign (unary operator): -
- 불린 연산:
  - » Binary operators: and , or
  - » Boolean negation (unary operator): ! , not
- 비교 연산:
  - » Comparators: > , < , >= , <= ( gt , lt , ge , le )
  - » Equality operators: == , != ( eq , ne )
- 조건문:
  - » If-then: (if) ? (then)
  - » If-then-else: (if) ? (then) : (else)
  - » Default: (value) ?: (defaultvalue)

# 표현식

- 형식

- » Tag 안에 삽입해서 사용.

```
th:[속성]="서버에서 전달 받은 값 또는 조건식"
```

- 3.x부터 inline 표현식 추가 → html 태그없이 표현이 가능.

```
[[ $user.name ]]
```

# 표현식

## ■ 자주 사용하는 표현식

th:text	텍스트 내용 <code>&lt;span th:text="\${user.name}"&gt;&lt;/span&gt;</code>
th:utext	html 내용 <code>&lt;div th:utext="\${content}"&gt;&lt;/div&gt;</code>
th:value	element value값, checkbox, input 등 <code>&lt;input type="text" th:value="\${title}" /&gt;</code>
th:with	변수값 지정 <code>&lt;p th:with="authType = \${user.authType}+' Type'" th:text="\${authType}"&gt;&lt;/p&gt;</code>
th:switch th:case	switch-case문 <code>&lt;div th:switch="\${user.role}"&gt;   &lt;p th:case="'admin'"&gt;User is an administrator   &lt;p th:case="#{roles.manager}"&gt;User is a manager &lt;/div&gt;</code>
th:if	조건문 <code>&lt;p th:if="\${user.authType}=='web'" th:text="\${user.authType}"&gt;&lt;/p&gt;</code>
th:unless	else 표현 <code>&lt;p th:unless="\${user.authType}=='facebook'" th:text="'not '+ \${user.authType}"&gt;&lt;/p&gt;</code>
th:each	반복문 <code>&lt;p th:each="user : \${users}" th:text="\${user.name}"&gt;&lt;/p&gt;</code>

# 표현식

## ■ htm15 속성에 대응하는 표현식

th:abbr	th:accept	th:accept-charset
th:accesskey	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:enctype	th:for
th:form	th:formaction	th:formenctype
th:formmethod	th:formtarget	th:fragment
th:frame	th:frameborder	th:headers
th:height	th:high	th:href
th:hreflang	th:hspace	th:http-equiv

# 표현식

## ■ htm15 속성에 대응하는 표현식 (계속)

th:icon	th:id	th:inline
th:keytype	th:kind	th:label
th:lang	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:onabort	th:onafterprint
th:onbeforeprint	th:onbeforeunload	th:onblur
th:oncanplay	th:oncanplaythrough	th:onChange
th:onclick	th:oncontextmenu	th:ondblclick
th:ondrag	th:ondragend	th:ondragenter
th:ondragleave	th:ondragover	th:ondragstart
th:ondrop	th:ondurationchange	th:onemptied
th:onended	th:onerror	th:onfocus
th:onformchange	th:onforminput	th:onhashchange
th:oninput	th:oninvalid	th:onkeydown
th:onkeypress	th:onkeyup	th:onload

# 표현식

## ■ htm15 속성에 대응하는 표현식 (계속)

th: onloadeddata	th: onloadedmetadata	th: onloadstart
th: onmessage	th: onmousedown	th: onmousemove
th: onmouseout	th: onmouseover	th: onmouseup
th: onmousewheel	th: onoffline	th: ononline
th: onpause	th: onplay	th: onplaying
th: onpopstate	th: onprogress	th: onratechange
th: onreadystatechange	th: onredo	th: onreset
th: onresize	th: onscroll	th: onseeked
th: onseeking	th: onselect	th: onshow
th: onstalled	th: onstorage	th: onsubmit
th: onsuspend	th: ontimeupdate	th: onundo
th: onunload	th: onvolumechange	th: onwaiting
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



# 표현식

## ■ htm15 속성에 대응하는 표현식 (계속)

th:size

th:spellcheck

th:standby

th:style

th:target

th:usemap

th:vspace

th:xmlbase

th:sizes

th:src

th:start

th:summary

th:title

th:value

th:width

th:xml:lang

th:span

th:src:lang

th:step

th:tabindex

th:type

th:valuetype

th:wrap

th:xml:space

th:size

th:spellcheck

th:standby

th:style

th:target

th:usemap

th:vspace

th:xmlbase

th:sizes

th:src

th:start

th:summary

th:title

th:value

th:width

th:xml:lang

th:span

th:src:lang

th:step

th:tabindex

th:type

th:valuetype

th:wrap

th:xml:space

```
1 @Controller
2 public class UserTestController {
3     @GetMapping("/users")
4     public String getUserList(Model model) {
5         List<User> users = new ArrayList<>();
6         for(int i=0;i<3;i++) {
7             users.add(new User("kkaok"+i, "테스트"+i, "web") );
8         }
9         User user = new User("테스트ID", "테스터", "web") ;
10        model.addAttribute("user", user);
11        model.addAttribute("users", users);
12        model.addAttribute("today", new Date());
13        model.addAttribute("content", "<div><span style='font-size:20px'>Hello World</span></div>");
14        return "users";
15    }
16 }
```

*Colored by Color Scri*

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>Thymeleaf 예제</title>
6 <!-- Link 예제 -->
7 <script th:src="@{/assets/vendor/jquery/jquery.js}"></script>
8 </head>
9 <body>
10 <h1>Collection 객체 each 예제</h1>
11 <p th:each="user : ${users}" th:text="${user.name}"></p>
12
13 <h1>Utility Objects 예제</h1>
14 <p>#calendars <br>Today is: <span th:text="${#calendars.format(today, 'yyyy-MM-dd')}">2019-02-15</s
15 <p>#arrays <br>user count is <span th:text="${#arrays.length(users)}"></span>.</p>
16
17 <h1>객체 예제</h1>
18 <p th:text="${user.name}">default</p>
19 <p>[[${user.name}]]</p>
20
21 <h1>th:text 예제</h1>
22 <p th:text="${content}">default value</p>
23
24 <h1>th:utext(Html) 예제</h1>
25 <p th:utext="${content}">default value</p>
26
```

```
20
27 <h1>th:with 예제 : 변수 선언</h1>
28 <p th:with="authType = ${user.authType}+' Type'" th:text="${authType}"></p>
29
30 <h1>th:if 예제</h1>
31 <p th:if="${user.authType}=='web'" th:text="${user.authType}"></p>
32
33 <h1>th:unless 예제</h1>
34 <p th:unless="${user.authType}=='facebook'" th:text="'not ' + ${user.authType}"></p>
35
36 <h1>script 예제</h1>
37 <p><span id="scriptTest"></span></p>
38 <script>
39 // script에서 값을 받을 때
40 var userId = '[[${user.userId}]]';
41 console.log(userId);
42 $("#scriptTest").html(userId);
43 </script>
44 </body>
45 </html>
```