



Thymeleaf

THYMELEAF

Thymeleaf is a popular server-side Java template engine for web applications. It enables developers to build dynamic web pages using natural templates with plain HTML, while seamlessly integrating with Spring Framework for server-side processing.

THYMELEAF EXPRESSIONS

Thymeleaf expressssions

- \${...} : Variable expressions.
- *{...} : Selection expressions.
- #{...} : Message (i18n) expressions.
- @... : Link (URL) expressions.
- ~{...} : Fragment expressions.
- __{...} : use an element inside another

THYMELEAF ATTRIBUTES

① Thyemleaf attributes

- message: <p th:text="#{msg.welcome}">Welcome everyone!</p>
- list: <li th:each="book : \${books}" th:text="\${book.title}">En las Orillas del Sar
- link: <form th:action="@{/createOrder}">
- action: <input type="button" th:value**="#{form.submit}" />
- path: <a th:href="@{/admin/users}">

HOW TH WORKS

How to write th:

HOW TH: WORKS

```
<td th:text="${book.title}"></td>
```

<td th:text="\${book.title}">

open and
close html
tag

define th
attribute
by th:

kind of
attribute,
in this case
text but it
may be
list, path, if

attribute is always a **string**, with some variables
injected from **@Controller**, use **\$ symbol to
note that.**
And after symbol, write the variable name
to finish the **expression with brackets {}**

CHEAT SHEET

| Feature | Description | Syntax |
|-----------|--|---|
| th:text | Sets the text of an element | <pre><p th:text="\${someValue}">Default Text</p></pre> |
| th:if | Conditionally renders an element | <pre><p th:if="\${someCondition}">Visible when condition is true</p></pre> |
| th:each | Loops over a collection and renders an element for each item | <pre><li th:each="item : \${items}" th:text="\${item}">Default Text</pre> |
| th:object | Binds a form to an object and sets its properties | <pre><form th:object="\${user}"><input th:field="*{name}" /></form></pre> |
| th:action | Sets the URL for a form's submission | <pre><form th:action="@{/submit}" method="post"></pre> |

CHEAT SHEET

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|-------------|---|---|
| th:href | Sets the URL for an anchor tag | <pre><a th:href="@{/page}">Link Text</pre> |
| th:src | Sets the source URL for an image tag | <pre></pre> |
| th:value | Sets the value of an input field | <pre><input th:value="\${someValue}" /></pre> |
| th:selected | Conditionally selects an option in a select field | <pre><select><option th:selected="\${isSelected}">Option Text</option></select></pre> |
| th:disabled | Conditionally disables an input field | <pre><input th:disabled="\${isDisabled}" /></pre> |
| th:readonly | Conditionally sets an input field as read-only | <pre><input th:readonly="\${isReadOnly}" /></pre> |

CHEAT SHEET

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|---------------|--|---|
| th:style | Sets the style attribute of an element | <pre><div th:style="'background-color:' + \${bgColor} + '"></div></pre> |
| th:attr | Sets any attribute of an element | <pre><input th:attr="data-id=\${itemId}" /></pre> |
| th:replace | Replaces an element with another | <pre><div th:replace="fragments/header :: header"></div></pre> |
| th:include | Includes a fragment of a template | <pre><div th:include="fragments/footer :: footer"></div></pre> |
| th:unless | Conditionally renders an element when a condition is false | <pre><p th:unless="\${someCondition}">Visible when condition is false</p></pre> |
| th:inline | Sets the inline mode of an element | <pre><script th:inline="javascript">alert([[\${message}]]);</script></pre> |
| th:textappend | Appends text to an element | <pre>Default Text</pre> |
| th:with | Sets a local variable in the | <pre><div th:with="varName=\${someValue}"></div></pre> |

Conclusion

- Thymeleaf is a powerful and easy-to-use templating engine for Spring Boot applications, allowing seamless integration with the backend.
- It simplifies dynamic HTML generation, making it easier to build server-side rendered applications with minimal JavaScript.
- Using Spring Boot + Thymeleaf, we can implement CRUD operations, form handling, validation, and internationalization efficiently.
- 1. It works well with Spring Security, enabling easy authentication and role-based access control.
- Thymeleaf supports fragments, improving code reusability and maintainability.
- Best suited for small to medium-sized applications that require server-side rendering without heavy frontend frameworks like React or Angular.

Thank You