

JSTL I18N/Formatting Tags

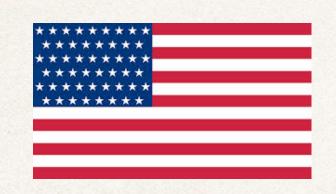


Apply Internationalization

Build a Multi-Lingual Application



Multi-Lingual Application





Howdy

First Name *John* Last Name *Doe*

Welcome to the training class.

Selected locale: en_US



English (US) | Spanish (ES) | German (DE)

Hola

Nombre de pila *John* Apellido *Doe*

Bienvenidos a la clase de formación.

Selected locale: es_ES



English (US) | Spanish (ES) | German (DE)

Hallo

Vorname *John* Nachname *Doe*

Willkommen in der Ausbildung Klasse.

Selected locale: de_DE



Formatting Messages



labels / placeholders

[greet]

[first_name]: John

[last_name]: Doe

[welcome_message]

English (US) | Spanish (ES) | German (DE)

Hola

Nombre de pila *John* Apellido *Doe*

Bienvenidos a la clase de formación.

Selected locale: es_ES



To Do List

- Step 1: Create Resource Files
 - Translated versions of your labels

• Step 2: Create JSP Page with labels

• Step 3: Update JSP page to change locale based on user selection



- Translated versions of your labels
 - You will need to use Google Translate or similar translator service

• Must name the file using the locale



What is a Locale?

Locale = Language Code + Country Code

- There are differences for a language depending on the country
- For example
 - English (US)
 - English (GB)



- File name must follow specific format
 - <your project file name>_LANGUAGECODE_COUNTRYCODE.properties
- Examples:
 - mylabels_es_ES.properties
 - mylabels_de_DE.properties
 - mylabels_en_GB.properties



- Language Codes based on ISO Standard 639-1 (2 letter code)
 - https://en.wikipedia.org/wiki/ISO_639-1

- Country Codes based on ISO Standard 3166-2 (2 letter code)
 - https://en.wikipedia.org/wiki/ISO_3166-2



• Here's an example for the locale: Spanish - Spain

File: mylabels_es_ES.properties

label.greeting=Hola
label.firstname=Nombre de pila
label.lastname=Apellido

label.welcome=Bienvenidos a la clase de formación.



Step 2: Create JSP page with labels

File: i18n-messages-test.jsp

<fmt:message key="label.greeting" />

<fmt:message key="label.firstname" /> <i>John</i>

<fmt:message key="label.lastname" /> <i>Doe</i>

<fmt:message key="label.welcome" />

Howdy

First Name *John* Last Name *Doe*

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Step 3: Update JSP page to change locale based on user selection

• Our JSP page will send links to itself

• Will pass the locale as a parameter

English (US) | Spanish (ES) | German (DE)

Howdy

First Name John



Step 3: Update JSP page to change locale based on user selection

```
<a href="i18n-messages-test.jsp?theLocale=en_US">English (US)</a>|
<a href="i18n-messages-test.jsp?theLocale=es_ES">Spanish (ES)</a>|
<a href="i18n-messages-test.jsp?theLocale=de_DE">German (DE)</a>|
<a href="i18n-messages-test.jsp?theLocale=de_DE">German (DE)</a>|
```

English (US) | Spanish (ES) | German (DE)

Howdy

First Name John



Step 3: Update JSP page to change locale based on user selection

```
<c:set var="theLocale"
    value="${not empty param.theLocale ? param.theLocale : pageContext.request.locale}"
    scope="session" />
<fmt:setLocale value="${theLocale}" />
<fmt:setBundle basename="com.luv2code.jsp.tagdemo.i18n.resources.mylabels" />
```





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