

# JSTL I18N/Formatting Tags





# JSP Standard Tag Library (JSTL)

**Core**

**Messages  
Formatting  
I18N**

**Functions**

**XML**

**SQL**



# What is Internationalization?

- **Internationalization** is the process of designing an application
  - So it can be adapted to various languages / regions
  - Without changes to the source code



# What is I18N?

- The term **Internationalization** is frequently abbreviated as **I18N**
  - There are 18 letters between the first “i” and the last “n” .... geeky :-)



# Formatting Messages

- Instead of hard-coding display text / messages in your application
- Make use of labels / the placeholders

hard coded

Hello

First name: John

Last name: Doe

Welcome to the training class.

labels / placeholders

[greet]

[first\_name]: John

[last\_name]: Doe

[welcome\_message]



# Formatting Messages

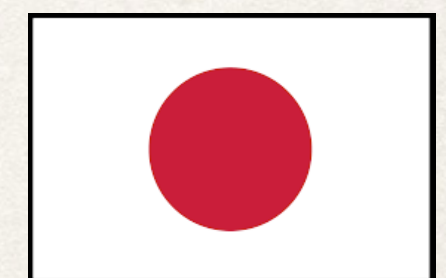
- You need to create translated versions of each label (no magic here)
- Based on user's language selection, system will include appropriate text

[greet]

[first\_name]: John

[last\_name]: Doe

[welcome\_message]





# Formatting Messages

- Instead of hard-coding display text / messages in your application
- Make use of labels ... the placeholders will use messages of current locale
- Locale = language + region
  - en\_US = English (US)
  - en\_GB = English (UK)
  - ... others ...



# Formatting Dates, Numbers and Currency

Locale	Short Date	Long Date	Number	Currency
English, US	05/06/02	May 6, 2002	1,234.56	\$1,234.56
English, UK	06/05/02	06 May 2002	1.234,56	£1.234,56
French, France	06/05/02	6 mai 2002	1 234,56	1 234,56 €
Japanese	02/05/06	2002年5月6日	1,234.56	¥1,234.56



# JSTL Functions

Area	Function	Tags	Prefix
I18N	Setting Locale	setLocale requestEncoding	fmt
	Messaging	bundle message param setBundle	
	Number and Date Formatting	formatNumber formatDate parseDate parseNumber setTimeZone timeZone	



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