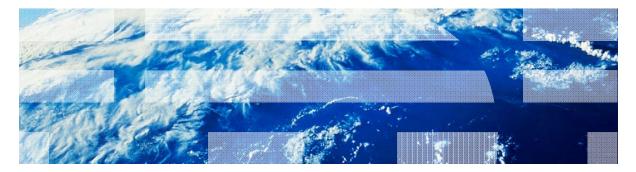


## IBM Worklight V5.0.6 Getting Started

**Enabling translation** 



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- Translation introduction
- Enabling translation of application strings
- Enabling translation of system messages
- Multi-language translation
- Detecting device locale and language
- Exercise



## Translation introduction

- You can use the Worklight® framework to enable the translation of applications into other languages
- Items that can be translated are
  - Application strings
  - System messages
- The Worklight Platform can automatically translate the application strings according to a designated file
- Multi-language translation can be implemented using JavaScript<sup>™</sup>

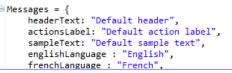


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# Enabling translation of application strings

 The messages.js file, which is intended for application strings, can be found in the common/js folder



- Application messages stored in messages.js can be referenced in two ways:
  - As a JavaScript object property, for example: Messages.header or Messages.sampleText
  - As an ID of an HTML element with class="translate"





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# Enabling the translation of system messages

- It is also possible to translate system messages that the application shows, for example "Internet connection is not available" or "Invalid user name or password"
- System messages are stored in WL.ClientMessages object
- A full list of system messages can be found in the wlclient/js/messages.js file inside the Worklight generated projects (iOS, Android, etc.)
- To enable the translation of a system message, override it in your JavaScript application.

```
window.$ = WLJQ;
WL.ClientMessages.requestTimeout = "Custom request timeout message";
WL.ClientMessages.invalidUsernamePassword = "Custom Username and password are not valid";
function wlCommonInit(){
```

```
$('#languages').bind('change', languageChanged);
```

 Override system messages on a global JavaScript level, because some parts of the code are executed only after the application has successfully initialized.

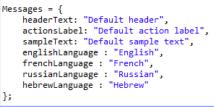


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## Multi-language translation

- Using JavaScript, it is possible to implement multi-language translation for your applications
- Set up the default application strings in the messages.js file.



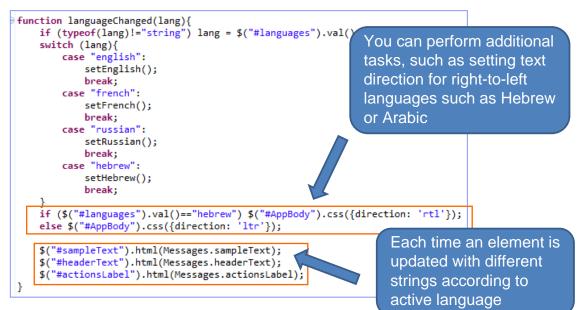
Override specific strings when required.

```
function setFrench(){
    Messages.headerText = "Traduction";
    Messages.actionsLabel = "Sélectionnez langue:";
    Messages.sampleText = "ceci est un exemple de texte en français.";
}
function setRussian(){
    Messages.headerText = "Перевод";
    Messages.actionsLabel = "Выбор языка:";
    Messages.actionsLabel = "Это пример текста на русском языке.";
}
```



# Multi-language translation

Update GUI components with the new strings.



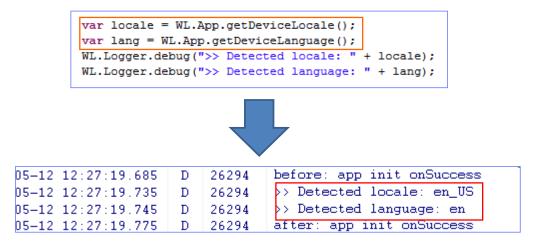


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### Detecting device locales

- It is possible to detect the locale and the language of the handset.
- Use WL.App.getDeviceLocale() and WL.App.getDeviceLanguage() to detect the current locale.





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## Exercise

- Create an application that detects the handset locale at startup and provides the user with a GUI in the language detected.
- Do not hard-code any of the application strings. Instead, store them in the messages.js file.
- Override default system error messages.
- Add the option to select languages manually.
- Change GUI elements according to the language selected.



## Exercise

 The sample for this training module can be found in the Getting Started page of the IBM® Worklight documentation website at

http://www.ibm.com/mobile-docs

📳 📲 🚮 🕑 1:35 PM		
Default header		
Default action label		
O Initialization Error		
Custom request timeout message		
Reload Exit		

Localization	Localisation
Select language:	Sélectionner langue:
English	French
This is a sample text	Ceci est un exemple
in english.	de texte en français.
Локализация	לוקליזציה
Выбор языка:	בחר שפה:
Russian	עברית צ
Это пример текста	זו דוגמא של טקסט
на русском языке.	בעברית.



# Check yourself questions

- Is it possible to detect the current device language and locale?
  - Yes, using WL.App.getDeviceLocale and WL.App.getDeviceLanguage APIs
  - Yes, using WL.App.getDeviceLanguageSettings API
  - It is only possible to detect the device language by using WL.App.getDeviceLanguage
  - No, it is not possible
- Which class should be added to an element in order for it to use a property from the messages.js file?
  - resource
  - translate
  - localizable
  - externalText
- In order to override system messages, which object properties should be overwritten?
  - WL.SystemMessages
  - WL.Messages
  - WL.Resources.Messages
  - WL.ClientMessages



# Check yourself questions

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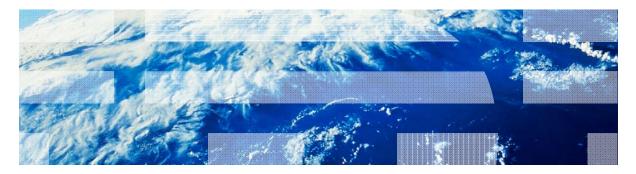
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