Languages

Overview

To create your own language file it is necessary that you use the exact contents of the default language file and translate the contents of the define statements. Language files are INI files which are readable by standard text editors and are set up as key/value pairs.

Working With INI Files

INI files have several restrictions. If a value in the ini file contains any non-alphanumeric characters it needs to be enclosed in double-quotes ("). There are also reserved words which must not be used as keys for ini files. These include: NULL, yes, no, TRUE, and FALSE. Values NULL, no and FALSE results in "", yes and TRUE results in 1. Characters {}|&~![()" must not be used anywhere in the key and have a special meaning in the value. Do not use them as it will produce unexpected behavior.

Files are named after their internationally defined standard abbreviation and may include a locale suffix, written as language_REGION. Both the language and region parts are abbreviated to alphabetic, ASCII characters. A user from the USA would expect the language English and the region USA, yielding the locale identifier "en_US". However, a user from the UK may expect a region of UK, yielding "en_UK".

Setup

As previously mentioned, language files are setup as key/value pairs. A key is used within the widget's view and the translator retrieves the associated string for the given language. The following code is an extract from a typical widget language file.

```
; Module - Example (en_US)
MOD_EXAMPLE_HERE_IS_LINE_ONE = "Here is line one"
MOD_EXAMPLE_HERE_IS_LINE_TWO = "Here is line two"
MOD_EXAMPLE_MYLINE = "My Line"
```

Translation keys can be upper or lowercase or a mix of the two and may contain underscores but no spaces. HUBzero convention is to have keys all uppercase with words separated by underscores, following a pattern of {ExtensionPrefix}_{WidgetName}_{TextName} for naming.

Table 1: Translation key prefixes for the various extensionsExtension Type Key Prefix Component

Extension Type

Key Prefix

Module Plugin Template

Adhering to this naming convention is not required but is strongly recommended as it can help avoid potential translation collisions. Since a component can potentially have modules loaded into it, the possibility of a widget and a module having the same translation key arises. To illustrate this, we have the following example of a component named mycomponent that loads a module named mymodule.

The language files for both:

```
; mymodule en_US.ini
MYLINE = "Your Line"

; mycomponent en_US.ini
MYLINE = "My Line"
```

The layout files for both:

Outputs:

```
<div>
<!-- Load the module -->
<strong>Your Line</strong>
<!-- Translate some component text -->
Your Line
</div>
```

Since the module is loaded in the component view, i.e. *after* the component's translation files have been loaded, the module's instance of MYLINE overwrites the existing MYLINE from the component. Thus, the view outputs "Your Line" for the component translation instead of the expected "My Line". Using the HUBzero naming convention of adding component and module name prefixes helps avoid such errors:

The language files for both:

```
; mymodule en-US.ini
MOD_MYMODULE_MYLINE = "Your Line"

; mycomponent en-US.ini
COM_MYCOMPONENT_MYLINE = "My Line"
```

The view files for both:

```
</div>
```

Outputs:

```
<div>
  <!-- Load the widget -->
  <strong>Your Line</strong>
  <!-- Translate some module text -->
  My Line
</div>
```

To Further avoid potential collisions as it is possible to have a component and module with the same name, module translation keys are prefixed with MOD_ and component translation keys with COM .

Translating Text

A translate helper (JText) is available in all views and the appropriate language file for an extension is preloaded when the extension is instantiated. This is all done automatically and requires no extra work on the developer's part to load and parse translations.

Below is an example of accessing the translate helper:

```
<?php echo JText::_("MOD_EXAMPLE_MY_LINE"); ?>
```

Strings or keys not found in the current translation file will output as is.

Further Help

For further help with language files, including creating and distributing your own translations to existing extensions, see Joomla!'s <u>documentation</u>.