

Home / One Click Localization



② Last updated: Nov 17th, 2016

What is it?

One Click Localization (OCL) is a Localization Tool for Unity designed to be easy and fast to use.

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The aim of OCL is that... **you don't think about localization**... OCL is based on values instead of keys like most of the localization systems, that's why you don't need to take care of it until you really want localize your project.

Its customizable automatic setup and its generic component adapter will let you localize a project in minutes, whithout a single line of code.

Demos

Test App



Use the Test App in Editor

To use the Test App in the Editor, you must first load its setup located in **OneClickLocalization/Demo/Saved_Setup/DemoSetup.asset** You can then build and run it for any platform.

Quick Start



Default configuration

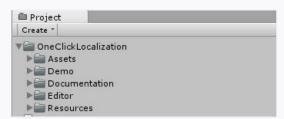
This quick start uses OCL default configuration, which only supports strings. Check the Automatic Setup section for more information on configuration.

1. Download OCL from the Unity Asset Store



2. Import OCL Package

All OCL content is located in a single directory "One ClickLocalization"



3. Open Setup Window: Window / One ClickLocalization / Setup

- 4. Click on the **Start Automatic setup** button (this is the One Click;))
- 5. Voilà! Youre project is Localization Ready!
- 6. Now you can add languages and start localize your texts from the Localization Window
- 7. Finally, you can run your project to test localization (if your default language equals your system's language, uncheck **Use system's language** and select the right language)

Editor - Setup

The Setup Window is used to configure OCL and start automatic setups.

Save / Load

OCL saves all its configuration data and localizations (used at runtime) in a single asset file **OCLSetup.asset** located in Resources folder

Be sure to add this file to your Source Control, to use Cloud Build and keep setup and localizations.

Save Setup

Saves the current configuration and localizations to the specified path. You can't save outside of the project Assets folder

Load Setup

Load the specified setup asset and replaces the current one.

You will lose current configuration and localizations.

Settings

This options can be modified during runtime via the Script API

• Activate localization

If unchecked, OCL is deactivated.

• Use system's language

If checked, OCL automatically detects language by using Application.systemLanguage

Force language

Available if **Use system's language is unchecked**. Select the language used by OCL.

Automatic Setup

Add OCL Component

If checked, setup process will add a OCLComponentAdapter to GameObjects found with a supported type.

Extract Data

If checked, setup process will extract data from the supported types to the localization list. You can then edit this localizations with the Localization Window

o Configure Includes / Exlude

Specify lists of components to include or exclude from setup process.

By default, only components supported by OCLComponentAdapter are in the include list:

UnityEngine.UI.Text, UnityEngine.UI.Image, UnityEngine.UI.RawImage, UnityEngine.GUIText, UnityEngine.TextMesh, UnityEngine.AudioSource, UnityEngine.GUITexture

• Parse Scene objects

If checked, setup process will parse objects from scenes

Selected scenes

List of scenes to parse. Only scenes from the build settings **Scenes in build** are available.

Parse inactives

If unchecked, inactive objects will be skipped

Parse Prefab assets

If checked, setup process will parse prefabs from the **Assets** folder.

- Assets subpath Let you define a subpath of prefabs to parse.
- Parse inactives If unchecked, inactive objects will be skipped

Languages

Default

The language of your content before localization.

Languages table

The table displays all the selected languages, the ratio of ids localized and the option to add/remove a language. When you remove a language, you lose all the OCL data related to it, use carefully.

• Edit Localizations

Opens the Localization Window

Microsoft Translator



Replace default account

See the Microsoft Documentation to create a free account

Translator can be used though the Localization Window:



Reset



No undo possible!

The reset will:

- Search for ALL OCLComponentAdapter in the project (from build scenes and prefabs) to remove them.
- Reset Setup Window data
- Reset languages configuration
- Reset all localizations

Editor - Edit Localizations

The Localization Window is an integrated editor for all your localizations: string, Sprite, Texture or AudioClip

A localization can have two states for a language:

- null: if GetLocalization is called for this id, it will answer null.
- not null: the value will be returned when GetLocalization is called

For strings : null and empty are differenciated, if you want a string to be null : use the **Reset** button



Filters

• Untranslated only: If checked, the table only show localization with a null value

- Search: Filters the table with the specified string
- Languages : Table displays only localizations for the selected languages
- Apply: Apply the current filter values to lds
- Reset: Reverts filter values to default

String Parameters

Strings support parameters for dynamic content.

Use bracket numbered ids: \${#}

Example: Hi, my name is \${1}, I live in \${2}

String Import/Export

You can import and export your string to xml and csv formats

XML

CSV

Uses coma separator, to avoid any problem during import, it is recommended to wrap all your strings in double quotes.

```
Stringld,French,German
String to localize 1,String à localiser 1,I can't speak German 1
Another string to localize,Une autre String à localiser,I still can't speak German
"String to localize with, special ' characters","String avec caracteres speciaux,"",I can't speak German... really
```

Runtime - Components

Components are based on the OCL Script API.

Only one component currently exist **OCLComponentAdapter** designed for ease of use and fast integration. More will come soon dedicated to performances

OCLComponentAdapter

 $Automatically\ localize\ supported\ components\ on\ the\ same\ Game Object,\ \textbf{no}\ \textbf{configuration}\ \textbf{needed}.$



Localization is currently supported for the following components (with corresponding type)

- UnityEngine.UI.Text (string)
- UnityEngine.GUIText (string)

- UnityEngine.TextMesh (string)
- UnityEngine.Image (Sprite)
- UnityEngine.RawImage (Texture)
- UnityEngine.GUITexture (Texture)
- UnityEngine.AudioSource (AudioClip)

To add it to a GameObject:

- Automatic : using Automatic Setup with the option Add OCL Component.
- Manual: you'll find it in the One ClickLocalization Category

You enable or disable types for the component. This is not dynamic during runtime for performance reasons.

Performances remarks

- OCLComponentAdapter test on each update if supported components values have changed and cache data to optimize the test
 as much as possible. String comparison is very fast and therefore has very low impact on performances. Texture, Sprite and
 AudioClip comparisons can impact performances when heavily used, they should be used wisely
- Impact on performances grows with the number of OCLComponentAdapter running, therefore adding OCLComponentAdapter automatically with Automatic Setup should be used carefully and its impact tested with the profiler.

Runtime - Script API

OCL exposes full access to its configuration and data though a complete C# API

All the API is accessed from the static class One ClickLocalization.OCL

OCL only uses UnityEngine.SystemLanguage to determine language, no locale (en_En, fr_FR, etc...)

Delegates

Delegate	Description
delegate void ActiveChanged(bool isActive) ActiveChanged onActiveChanged	Called when Active state changes
delegate void LanguageChanged(SystemLanguage oldLang, SystemLanguage newLang) LanguageChanged onLanguageChanged	Called when selected language changes
delegate void LanguagesChanged() LanguagesChanged onLanguagesChanged	Called when a language is added or removed from the the languages list
delegate void LocalizationChanged(object id, SystemLanguage language, object newValue) LocalizationChanged onLocalizationChanged	Called when a localization is modified

Methods

Method	Description
bool IsActive()	Get OCL active state
void SetActive(bool value)	Set OCL active state

void SetLanguage(SystemLanguage language)

Set the language used by OCL, has not effect if IsLanguageAuto is true

SystemLanguage GetLanguage()

Returns language used by OCL. If IsLanguageAuto is true: returns Application.systemLangualf IsLanguageAuto is false: returns language defined with SetLanguage.

Default value is SystemLanguage.English

bool IsLanguageAuto()

If true, OCL uses Application.systemLanguage for localization. If false, OCL uses GetCustomLanguage for localization

void setLanguageAuto(bool isAuto)

Defines if OCL should use Application.systemLanguage or GetLanguage for localization

void

AddLanguage(SystemLanguage language)

Add a new language. Has no effect if language is already in GetLanguages

void
RemoveLanguage(SystemLanguage
language)

Removes a language.

Has no effect if language is not in GetLanguages.

List GetLanguages(bool addDefaultLanguage = true)

Returns supported languages.

Use AddLanguage to add a new one and RemoveLanguage to remove one.

If addDefaultLanguage is true, defaultLanguage will be in the list even if it has not been add

object GetLocalization(object itemId)

Main method of the API

Generic version of GetLocalization

Returns the translation of the given object if its type is supported, its id is present and curre

string GetLocalization(string originalString)
Sprite GetLocalization(Sprite originalSprite)
Texture GetLocalization(Texture originalTexture)
AudioClip
GetLocalization(AudioClip originalAudioClip)

Typed versions of GetLocalization

string GetLocalization(string originalString, SystemLanguage language)

Returns the translation of the given string for the given language.

This method shouldn't be called directly as it won't handle active, defaultLanguage and force Call it only if you need to access localization data directly without taking care of OCL setup.

Sprite GetLocalization(Sprite originalSprite, SystemLanguage language)
Texture GetLocalization(Texture originalTexture, SystemLanguage language)
AudioClip
GetLocalization(AudioClip originalAudioClip, SystemLanguage language)

Typed versions of GetLocalization(Sprite, lang)

void SetLocalization(object id, SystemLanguage language, object translation) Generic version of SetLocalization
Set the translation for the given id and language.

Has no effect if language is not in GetLanguages. Use AddLanguage to add a new language.

void SetLocalization(string id, SystemLanguage language, string translation) void SetLocalization(Sprite id, SystemLanguage language, Sprite translation) void SetLocalization(Texture id, SystemLanguage language, Texture translation) void SetLocalization(AudioClip id, SystemLanguage language, AudioClip translation) Typed versions of SetLocalization

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Examples

Get a localization for current language

```
string localization = OCL.GetLocalization("my text to localize");
```

Get a localization for a specific language

```
string localization = OCL.GetLocalization("my text to localize", SystemLanguage.German);
```

List languages in a Dropdown

```
// Languages list init
List<string> languagesStrings = new List<string>();
// Add supported languages
foreach (SystemLanguage supportedLanguage in OCL.GetLanguages())
{
    languagesStrings.Add(supportedLanguage.ToString());
}
languageDropdown.AddOptions(languagesStrings);
```

Change language from a Dropdown selection

```
string selectedLanguage = languageDropdown.options[languageDropdown.value].text;

OCL.SetLanguage((SystemLanguage) Enum.Parse(typeof(SystemLanguage), selectedLanguage));
```

Add new language

```
SystemLanguage language = SystemLanguage.German;
if (OCL.GetLanguages(false).Contains(language))
{
    Debug.Log("Selected language already there.");
}
else
{
    OCL.AddLanguage(language);
}
```

Set new localization value

```
if (OCL.GetLanguages().Contains(language))
{
    OCL.SetLocalization("localized text", language, "My new value for this localized text");
    Debug.Log("Localization updated");
}
else
{
    Debug.Log("Selected language is not supported, use AddLanguage()");
}
```

For complete examples, see the Demo App code shipped with OCL

Contact

Found a bug? Any question? Contact us 7/7, day and night! (but don't expect immediate answer at night... or on sunday... and saturday...)









Designed with \blacktriangledown by Xiaoying Riley for developers