Translating Open Rails

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Preface

In order to be useful for everybody who might want to do a translation of Open Rails, regardless of their experience with programming, this tutorial will cover the basics as well as some advanced features and "best practices".

As you might know, Open Rails is an open source project, and the code is hosted in a Git repository at <u>https://github.com/openrails/openrails</u>. Anybody may download it from there either directly or by using a Git client (more on that later).

Getting Started

In order to translate Open Rails, you will have to download and change (some of) the source files. With the proper two (freeware) applications installed, this usually is not a problem. But first, let's get them set up.

Code Management - GitHub Desktop

The best way to download the code so you can work on it and submit your work is by using a Git client.

If you are already comfortable with a Git client of your choice, you can simply fork the official repository at GitHub, check out a local copy and skip to the next section.

If you do not know how to work with Git, use Maintaining translations with GitHub Desktop¹

Translation Management - Poedit

When you're done setting up your local fork of the official repository, it's time to install the second program you will need in order to translate ORTS: Poedit.

Download Poedit from here: <u>http://Poedit.net/</u>

When the download has finished, simply install it to your preferred location on your local drive, leaving any other options at their default values.

Translation Process

When the installation and the download processes are done, you're done with the preparations and can head off to actually translating.

Folders and Files

The files that contain ORTS' translation data are located in the folder <<pre><WhereverYouSavedTheCodeTo>\openrails\Source\Locales\<PartOfTheProgram>

<partoftheprogram> is another level of sub-folders, which contains the actual translation files for the different</partoftheprogram>	openrails > Source > Locales > Menu
	Name
	🚺 cs.po
	🚺 da.po
	🚺 de.po
	👔 es.po
	👔 fr.po
	🚺 hu.po
	🚺 it.po
	🔝 Menu.pot
	📘 pt-BR.po
	pt-PT.po
	👔 qps-ploc.po
	🔝 ru.po
	-

📰 zh-CN.po

¹ This can be downloaded from <u>https://static.openrails.org/files/Maintaining-translations-with-GitHub-Desktop.pdf</u>

parts of the program. These are the *.po files, e.g. "it" for Italian, "de-at" for Austrian German².

Adding a Language

If your language is not included already, then use the template *.pot to create an initial version as follows.

First, open Poedit using the shortcut the installer should have created on your desktop. Click the first option, "Create new translation from POT template":



With the Contrib folder as an example, in the pop-up window then opened navigate to

"<WhereverYouSavedTheCode>\openrails\Source\Locales\Contrib" and double-click on "Contrib.pot".

² For a full list of language codes, see https://gist.github.com/eddieoz/63d839c8a20ef508cfa4fa9562632a21

Poedit will load the file. If it throws any error or warning messages at you (usually about "the \r escape sequence"), simply click OK and ignore it.

Once the file has been loaded, Poedit will display a pop-up window asking you to specify the language to which you are going to translate. Use the drop-down list to select your language, e.g.:

Translation Language		×
Language of the translation: Esperanto		~
	ок	Cancel

After clicking OK, immediately save the file to the folder (e.g. "Locales/Contrib/" (or, for other translation files, to the proper folder) KEEPING THE FILENAME Poedit gave it. Ignore any errors that might be mentioned - let the people deal with them who produced them ;)

Edit View Translation Go New New from POT/PO file	Help Ctrl+N	translate	Jpdate from code	Upgrade to Pro	
New WordPress translation			ianslation — English (United Kingdom)	LATION	×
Open Open Recent Open cloud translation	Ctrl+0 >		Pre-translate all making correct one by one.	items at once and focus or ons, instead of translating	n them
Start window Catalogues manager	Ctrl+Shift+1	n simulato		Pre-translate Not inte	<u>erested</u>
Save	Ctrl+S		Sug	aestions Terminology	
Save as 🤷 Compile to MO			0 15 Activity Edit	or	
Export to HTML Export to Excel Import from Excel			Ctrl+1 + 95% + tr (PRO) 9 out of 10 c Remove this	inslated by @DeepL Inline suggestions left. Ilimitation	
Check for updates License Settings					
Exit			Needs work		
		1			
				Add.co	mment

Repeat this process for each of the folders in Source/Locales/

Each folder applies to part of the core product except the Contrib folder which contains translations for all the contributed programs together.

When that is all set-up, you have translation files without translations - not that good, of course. So, now to the tricky part, actually getting a translation done.

Translating Text

Use *File > Open* in Poedit to load a *.po file and see the original text (in US English) in the left-hand column and any translations in the right-hand column.

To edit a translation, just select the row in the top table and edit the bottom pane.

As with most editors, changes are saved as you make them, but not saved to file until you use File > Save or try to close the Window.

Interpreting, how Poedit Assists You

In order to get a good translation done, it's often necessary to keep track of strings that are not translated spot-on yet. And altogether, with sometimes a few hundreds of strings in one PO file, it can be hard to keep a good overview. But Poedit does a good job in assisting you, if you know what it does.

If you are not sure on how to translate a certain string, translate it as far as possible and while it is still highlighted in the list, click on the "Needs work" button in the bar of the Translation pane. The text of that certain string will now change to orange to indicate it's not translated fully yet.

In order to get a brief overview of your progress, look at the very bottom left of the Poedit window. There the program shows you the percent of the current file you have already translated, how many records remain, and so on.

Keyboard Shortcuts

Clicking each and every list entry, then clicking inside the translation box and entering the actual text in the non-English language is nice. You can, however, speed up the process a bit.

Best thing to do is start outright with the first list entry and work sequentially to the last one. That is facilitated using keyboard shortcuts instead of clicking each next entry with the mouse.

CTRL + ENTER will highlight the next not-yet-translated list entry for translation (this includes those marked "Needs work"). Simply type away, and press CTRL + ENTER again when you're done to bring up the next string.

CTRL + B inserts the source text into the translation field. This can be useful if the source contains formatting tags such as {0} or /n, which need to be kept in the translation. You can simply select the English parts as in any text editor and replace them appropriately. Sadly, there is no indication what the {0} markers stand for in any specific string (they are used to insert additional text while ORTS executed, i.e. at run time). Usually, you can just guess, if it isn't clear (see Chapter 6. Getting Help with Ambiguous / Unclear Strings).

CTRL + B also is useful when you absolutely don't know how to translate a string. Simply insert the original, and mark the list entry as "Needs work". This will later indicate to you that you already tried to translate that string, but couldn't.

CTRL + U is a toggle to mark and unmark a translation as "Needs work".

Preparing to Submit

When you're done with the translation in a particular folder of the "Locales" folder, move on to the next one until you're done with all of the folders.

Then generate the *.dll files from which ORTS gets its translations. Do this from the command line by running the batch file <code>Source/Locales/Update.bat</code>. Here is some of the output:



This process generates files such as

openrails\Program\<language code>\RunActivity.Messages.resources.dll for all the language codes and all the program components.

If you copy these files to the corresponding folders of your current Open Rails installation, then you can run Open Rails and view your translations "in game".

Space Restrictions

Please check for translations which are too long for the space provided in the game.

If a good translation cannot be fitted into the space that the program provides, please ask for the program to be changed to provide more space. Clarity is preferred over neat presentation.

Updating an Existing Translation

As ORTS progresses, so does its base of localizable strings, and an update of the translations will be necessary. Poedit also helps you with that.

We assume that you have used GitHub to update your repository with the latest version of the "upstream/master" branch.

This will update the *.pot files and your task is to update the *.po files for your language to match.

Back in Poedit, and for each folder in the Locales folder, do the following:

Use *File > Open* to load the *.po file and note the statistics in the bottom left corner, such as:

Translation
Éditeur <u>Activité</u>
Translated: 441 of 446 (98 %) • Remaining: 5

Then use "*Translation > Update from POT file* . . . " to pick the *.pot file for the folder.

	0000 0000000000000000000000000000000000	
📄 fr.po (modified	l) - Poedit	
File Edit View	Translation Go Help	
	Source Text	>
Source text —	Update from source code	
menuStrip1	Update from POT file	
statusStrip1	Sync with Crowdin	
toolStripButton	Pre-translate	
Form1		-
label7	Validate translations	
mouse-right cli	Statistics	
Select event col		-
Select activity	Remove same-as-source translations	
Show events	Purge deleted translations	
Show event nar	Properties Alt+Enter	
Activity Editor	Altende	

Ignore any errors that might be mentioned - let the people deal with them who produced them ;)

Look again at the values in the bottom left to see if any have been changed by this update.

If nothing has changed, then exit the file, preferably without saving. Otherwise, find the changes and translate them.

You can use "*View > Group by context*" to bring missing entries and those that need work to the top of the table:



Getting Help with Ambiguous / Unclear Strings

As already mentioned, you will not be able to translate each and every string flawlessly without help and explanations. Some may be ambiguous, and most lack information about the context in which they are being used. But there are several methods to get around this.

The fastest, though not most straightforward method is to look at the source code of ORTS. This is, however, only recommended for people who have a fair bit of experience with programming (C# is the language used most extensively in ORTS). Highlight the string you're having problems with in the table, then use "View > Show code occurrences"

📄 fr.po (m	odifie	d) - Poedit
File Edit	View	Translation Go Help
68		Show string ID
	\checkmark	Show warnings
· Source		Customise warnings
menuSt	•	Sort by file order
statussti		Sort by source
Form1		Sort by translation
label7		
mouse-i	_	Group by context
Select ev	~	Entries with errors first
Select ac	~	Untranslated entries first
Show ev		Show suggestions tab Ctrl+Shift+T
Show ev		Show terminology tab Ctrl+T
Activity		ci i i citi cit
Source text		snow code occurrences
C		Show sidebar Alt+Ctrl+S
Select event	~	Show status bar

to pop up a window with the source code:

E Coo	le Occurrences — — — >	<
//Co	ontrib/TrackViewer/Drawing/DrawColors.cs:218 v 1 code occurrence Open in editor	r
207	itemColor.MakeIntoliserPreference(preferenceChanger, "roadcrossing".	
208	TrackViewer.catalog.GetString("Select road crossing color"));	
209	itemColors.RoadCrossing = itemColor:	
210		
211	<pre>itemColor = new ColorWithHighlights(Color.Purple, 40);</pre>	
212	itemColor.MakeIntoUserPreference(preferenceChanger, "speedpost",	
213	<pre>TrackViewer.catalog.GetString("Select speedpost color"));</pre>	
214	<pre>itemColors.Speedpost = itemColor;</pre>	
215		
216	<pre>itemColor = new ColorWithHighlights(Color.DarkGray, 40);</pre>	
217	itemColor.MakeIntoUserPreference(preferenceChanger, "event",	
218	<pre>TrackViewer.catalog.GetString("Select event color"));</pre>	
219	<pre>itemColors.Event = itemColor;</pre>	
220		
221	<pre>itemColor = new ColorWithHighlights(Color.Blue, 40);</pre>	
222	itemColors.CandidateNode = itemColor;	
223		
224	itemColor = new ColorWithHighlights(Color.Purple, 40);	
225	<pre>itemColors.ActiveNode = itemColor;</pre>	
226		
227	itemColor = new ColorWithHighlights(Color.LightBlue, 40);	
228	itemColors.ClearWindowInset = itemColor;	
229		Ŧ

If you can make some sense of it, this will probably help you most and fastest.

If you can't make sense of the code, take a look at this sub-forum <u>https://www.elvastower.com/forums/index.php?/forum/401-or-translations-questions-feedback/</u> at Elvas Tower. Many questions, not only regarding "how to translate this and that" problems, have already been answered.

If that still doesn't help, simply ask, either in the public forums (most likely to get a useful answer), or somehow else (Private Messages or emails to your translation tutor or other translators, etc.).

Miscellaneous Notes

If you have any problems, feel free to contact the team on the Elvas Tower forums (https://www.elvastower.com/), where a bunch of info can already be found with a search as well.

If you are having problems with this tutorial, contact the updater (see end of file).

Be prepared that translating is a tedious process that takes time and effort and is not always fun. But in the end, it may well be worth it, helping to make ORTS enjoyable also for people who have no knowledge of other languages already available as translations.

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