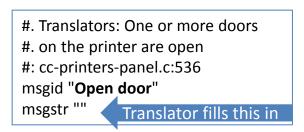
ScreenMatch: Providing context to software translators by displaying screenshots

Software translation today

The developer sends the translator a file of messages to be translated, which the translator fills in.

Translators currently see just the message they're translating, not how it appears in the application.



Problem Translators lack context

A message can have several different meanings, which need to be translated differently. Translators need context to decide which is correct.

Message	Meaning	Translation (Japanese)
Open Door	The door is open	扉が開い ています
Open Door	Please open the door	扉を開いて ください

Solution

Show translators screenshots

We provide translators with context by displaying a screenshot corresponding to each message.

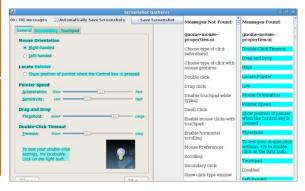


#: ../capplets/keybindings/gnome-keybinding-properties.c:1207 msgid "If you reassign the shortcut to \"%s\". the \"%s\" shortcut will be disabled."

Si reasigna la combinación a «%s» se desactivará la combinación «%s»

Screenshot Gatherer

Takes screenshots of the running application, and provides feedback on how much of the application has been explored.



Message-Screenshot Matcher

Matches each translatable message to a screenshot by extracting text out of screenshots via OCR, then matching the OCR-ed text to messages.



Evaluation

We gathered screenshots for three applications, and compared the matches made by the Message-Screenshot Matcher to matches made manually.

Application	Messages in	Correctly
	Gathered Screenshots	Matched
Gnome Control		
Center	397	341 (86%)
XFCE Terminal		
Emulator	222	159 (72%)
PCManFM File		
Manager	124	99 (80%)