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How to make your own custom Kobo dictionaries

Pre-Requisites

Software you will need

- Python
- Penelope: http://www.albertopettarin.it/penelope.html
- Marisa-Trie: http://code.google.com/p/marisa-trie
 - for windows you should find pre-compiled binaries somewhere on the internet (e.g. here: http://www.mobileread.com/forums/showthread.php?t=196925)
 - for linux/mac compile it as noted here: http://code.google.com/p/marisa-trie/wiki/HowTo?wl=en
 - Download the source
 - Run \$./configure
 - Run \$ make
 - Run \$ sudo make install
 - Adjust the penelope.py file around line 50 to the appropriate binaries. (On my ubuntu both are in /usr/local/bin/.)
- (optional, if using Babylon) PyGlossary: http://sourceforge.net/projects/pyglossary

Steps

- Decide which dictionary to use. Penelope supports StarDict, XML, CSV and Bookeen Odyssey as input formats. Typically you will have StarDict or CSV. Recommendations are: Babylon and/or dict.cc
- 2. Download the dictionary
 - 1. For Babylon (Windows required):
 - 1. Go to http://www.babylon.com/free-dictionaries/languages/, choose your language and translation, and download the Babylon10 setup dict.exe.
 - 2. Install it as usual.
 - 3. It should download your selected dictionary after installation.
 - 4. Locate the BGL file: Open an explorer and go to C:\Users\
 <username>\AppData\Local\Babylon (or whereever your user folder is located). There should be a file called

 Babylon_FROM_TO.BGL. You can either copy it somewhere else

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or let it stay there, doesn't really matter - if you are an expert.

- 5. Make sure Python & PyGlossary is installed / downloaded
- 6. Convert it to StarDict format: http://code.google.com/p/stardict-3/wiki/ConvertBabylon
 - 1. make sure **glade2** is installed, on Ubuntu just type in sudo apt-get install python-glade2 (yes lam using both Windows and Ubuntu for this)
 - 2. in a console type: \$./pyglossary.sh or C..> pyglossary.bat
 - 3. Navigate to Preferences tab. In the Convert group uncheck "Remove tags after loading". Close the window.
 - 4. Now execute the following (substitute environment if you are on windows) \$./pyglossary.sh

 (PATH_TO) Babylon_FILENAME.bgl

 (OUTPUT_PATH) Babylon_FILENAME.ifo
 - 5. Note that the StarDict files will be written to the OUTPUT_PATH (which is of course the working directory if left empty)
 - 6. You should have a .ifo, .dict and .idx file now

2. For dict.cc:

- 1. Go to http://www1.dict.cc/translation_file_request.php
- 2. Let them send the file to your email
- 3. You will get a .zip file with a .txt file in it
- 4. This file qualifies as a CSV file (with "comma" being whitespace)
- 5. Optional: Convert CSV to XML format

3. Convert to Kobo format.

1. Run the following command for Babylon:

```
$ python penelope.py --sd -p (PATH_TO)Babylon_FILENAME -f
FROM_LANGUAGE -to TO_LANGUAGE --output-kobo
```

Note to not add any file extension after FILENAME. Obviously, you will want to replace the ALL_CAPS stuff, with language codes being en, de, fr, it, etc. Optionally, include de -d parameter if you run into trouble

2. Run the following command for dict.cc:

```
$ python penelope.py --csv -p (PATH_TO)dictcc_FILENAME -f
FROM LANGUAGE -to TO LANGUAGE --output-kobo -d
```

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Note to not add any file extension after FILENAME. Obviously, you will want to replace the ALL_CAPS stuff, with language codes being en, de, fr, it, etc. Optionally, include de <code>-d</code> parameter if you run into trouble (which is the debug mode)

4. You will have <code>dicthtml_FROM_TO.zip</code> files which need to be copied on your device to <code>.kobo/dict/</code>. Make sure that you name them after an already existing dictionary.

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