

User Manual

Project Name: Automatic Transliteration between English and Russian

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Installation

The installation process for this application is very simple. One need only go to the gitlab link given: <https://gitlab.com/computing.dcu.ie/drummk2/2017-ca400-drummk2> or just run a git clone command from this link. Once you have cloned this repo to navigate to the application and subsequently run it, type out the following commands:

```
cd 2017-ca400-drummk2/  
cd src  
cd Application  
./run
```

Using these commands you can navigate into the directory containing the source code for the application. Then by running the “run” script, the graphical user interface will begin running and you can start transliterating.

In the event that an error occurs and you must run the user interface script directly, simply use the following commands. Note that these commands are provided with the assumption that at that point in time you are in the Application directory.

```
cd Desktop_User_Interface  
cd dist
```

```
python user_interface.py  
or  
./user_interface.exe
```

User Guide

This application can be used to transliterate proper nouns from the English Roman alphabet into the Russian Cyrillic alphabet. This application should prove to be useful for any English speakers learning Russian or Russian speakers learning English who are experiencing some difficulties with grasping the spelling and pronunciation rules in those languages.

How to navigate

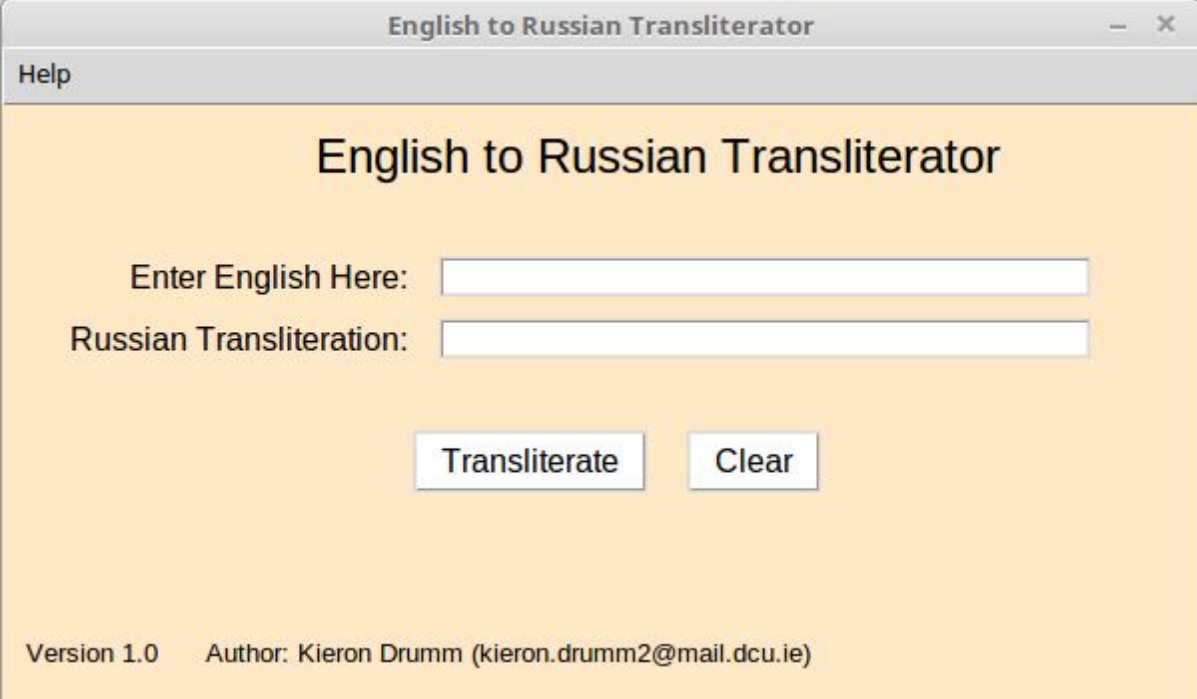
By pressing a button in the dropdown menu at the top of each window, a pop-up window will appear corresponding to whatever was pressed. 'Tutorial' will bring up a separate window containing instructions on how to use the application. Also in order to exit the application simply press the “x” symbol at the top right of the window and a prompt will appear asking for confirmation to terminate the program. Just press “Yes” and the program will terminate.

How to transliterate

If one wishes to transliterate something from English into Russian, a user need simply type their English message into the first box with the message “Enter English Here” beside it. They can then either press the 'Transliterate' button or press the Enter key and the transliteration process will begin. Due to some complexity issues, this process will take about 45 seconds to complete. Once this process has finished, the user will then be presented with the Russian transliteration of their message in the other textbox with the message “Russian Transliteration” beside it. Also, if one ever wishes to clear both text boxes, they can just press the 'Clear' button or use the Ctrl-c shortcut and both text boxes will be clear.

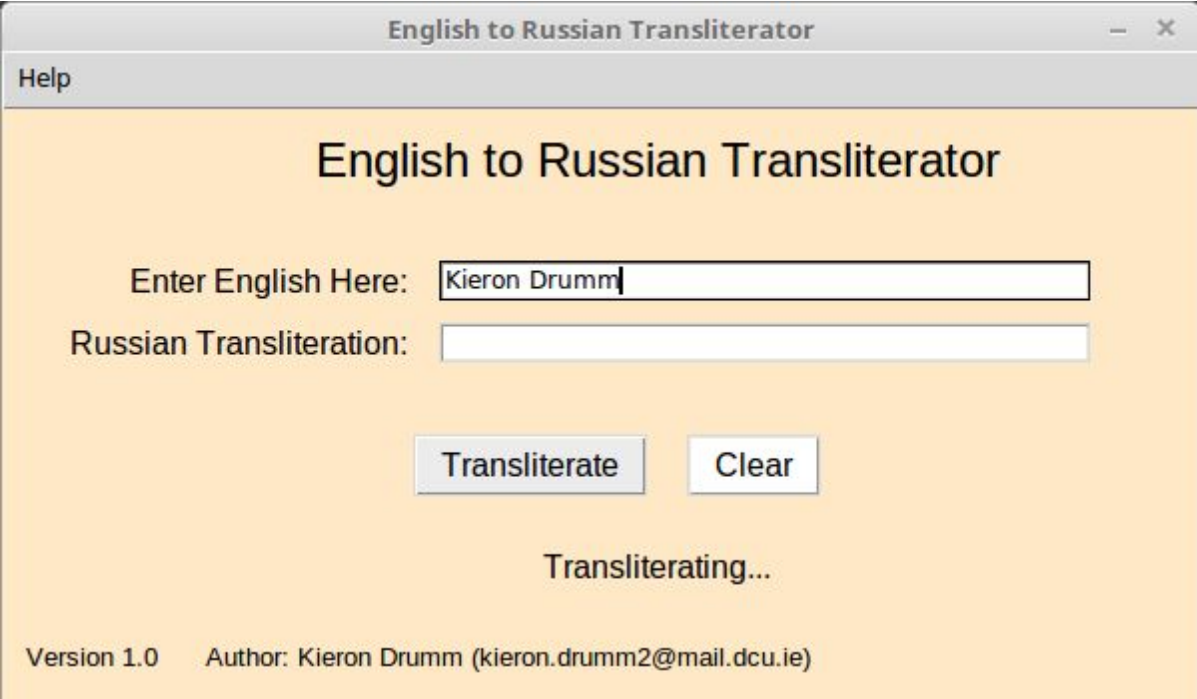
Screenshots

Main Window (Idle)



The screenshot shows a window titled "English to Russian Transliterator" with a standard macOS-style title bar (minimize, maximize, close buttons). Below the title bar is a menu bar with a "Help" option. The main content area has a light orange background and is titled "English to Russian Transliterator" in a large, bold, black font. Below the title, there are two text input fields. The first is labeled "Enter English Here:" and is empty. The second is labeled "Russian Transliteration:" and is also empty. Below these fields are two buttons: "Transliterate" and "Clear". At the bottom of the window, there is a footer that reads "Version 1.0 Author: Kieron Drumm (kieron.drumm2@mail.dcu.ie)".

Main Window (During Transliteration)



This screenshot shows the same window as the previous one, but in a state where transliteration is in progress. The "Enter English Here:" input field now contains the text "Kieron Drumm". The "Russian Transliteration:" field remains empty. The "Transliterate" button is now disabled (grayed out), while the "Clear" button remains active. Below the buttons, the text "Transliterating..." is displayed in a large, bold, black font. The footer at the bottom remains the same: "Version 1.0 Author: Kieron Drumm (kieron.drumm2@mail.dcu.ie)".

Main Window (Transliteration Completed)

The screenshot shows a window titled "English to Russian Transliterator" with a "Help" button in the top-left corner. The main area has an orange background and displays the title "English to Russian Transliterator" in large black text. Below this, there are two text input fields. The first field, labeled "Enter English Here:", contains the text "Kieron Drumm". The second field, labeled "Russian Transliteration:", contains the text "киерон друмм". Below the input fields are two buttons: "Transliterate" and "Clear". Underneath the buttons, the text "Transliteration Complete" is displayed. At the bottom of the window, the version "Version 1.0" and the author information "Author: Kieron Drumm (kieron.drumm2@mail.dcu.ie)" are shown.

English to Russian Transliterator

Help

English to Russian Transliterator

Enter English Here: Kieron Drumm

Russian Transliteration: киерон друмм

Transliterate Clear

Transliteration Complete

Version 1.0 Author: Kieron Drumm (kieron.drumm2@mail.dcu.ie)

Main Window (Error - No English Input Provided)

The screenshot shows the same window as above, but with an error state. The "Enter English Here:" input field is empty. The "Russian Transliteration:" field is also empty. The "Transliterate" and "Clear" buttons are still present. Instead of "Transliteration Complete", the text "Must provide an English sentence" is displayed in the center. The footer information remains the same.

English to Russian Transliterator

Help

English to Russian Transliterator

Enter English Here:

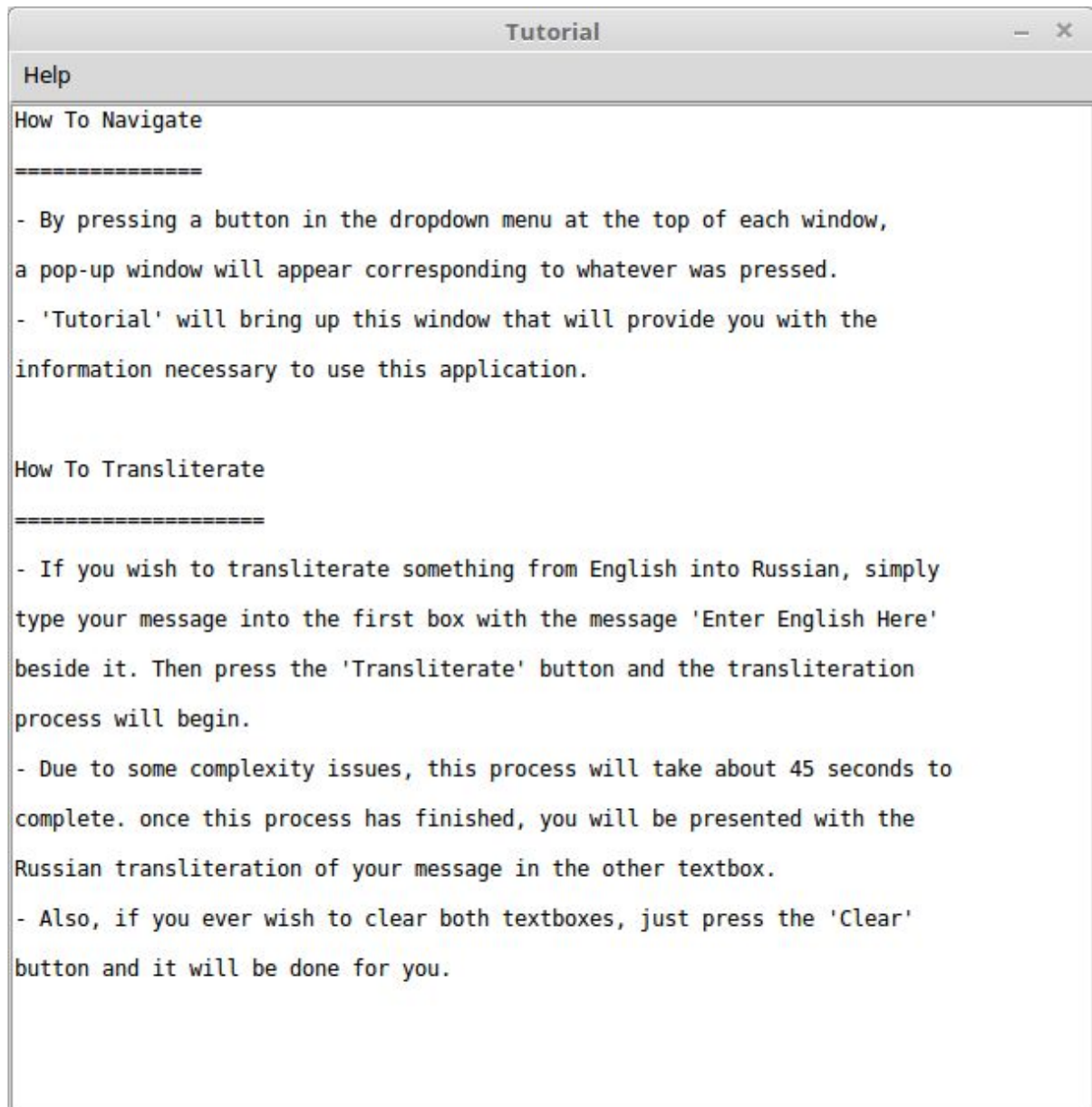
Russian Transliteration:

Transliterate Clear

Must provide an English sentence

Version 1.0 Author: Kieron Drumm (kieron.drumm2@mail.dcu.ie)

Tutorial Window



Exit Prompt

