

Liber-Primus Hangman demo v0.1

Introduction: This is a working demo, with limited testing. It's all prototype code ;-). The purpose of this app is to help find possible phrases that could be in the Liber Primus.

Requires: python 2 or 3 and PyQt4 or windows binary LP_Hangman.exe

Tested on linux and Windows 7

Get ngram data: can't share on git too big a file compressed, please see

https://www.dropbox.com/s/36irgziw9o75b5z/ngram_data.7z?dl=0

Uncompress ngram_data.7z

Important: ngram_data files **must** be in this relative path

<install>\ngram_data\4gram\<letters>\file.text

And

<install>\ngram_data\1gram\<letter>\file.text

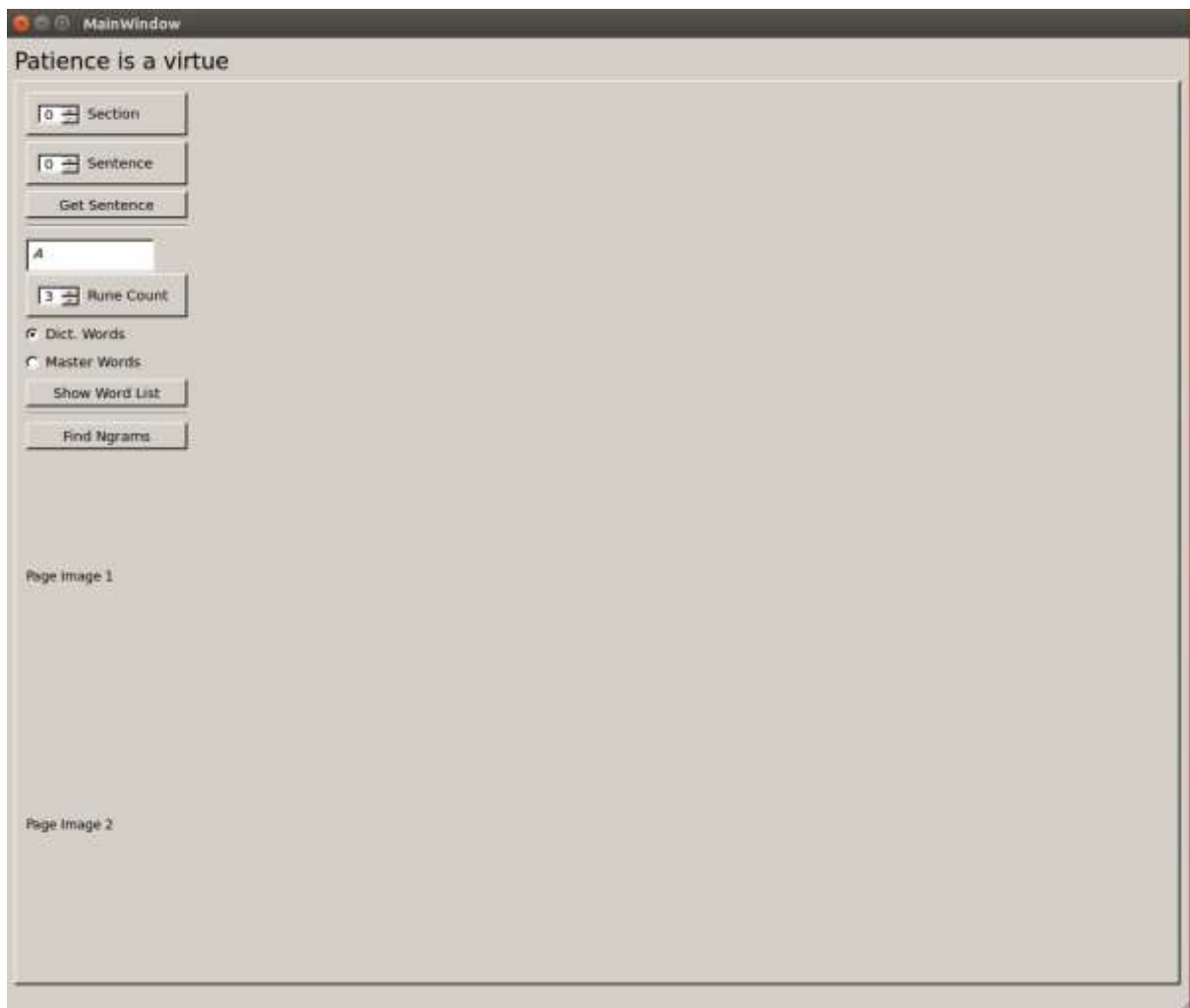
It's way too big: The way of separating n-gram data into many files makes access fast, but takes up much more space. This can probably be improved. But don't we all have many spare GB?

Run: LP_Hangman.py

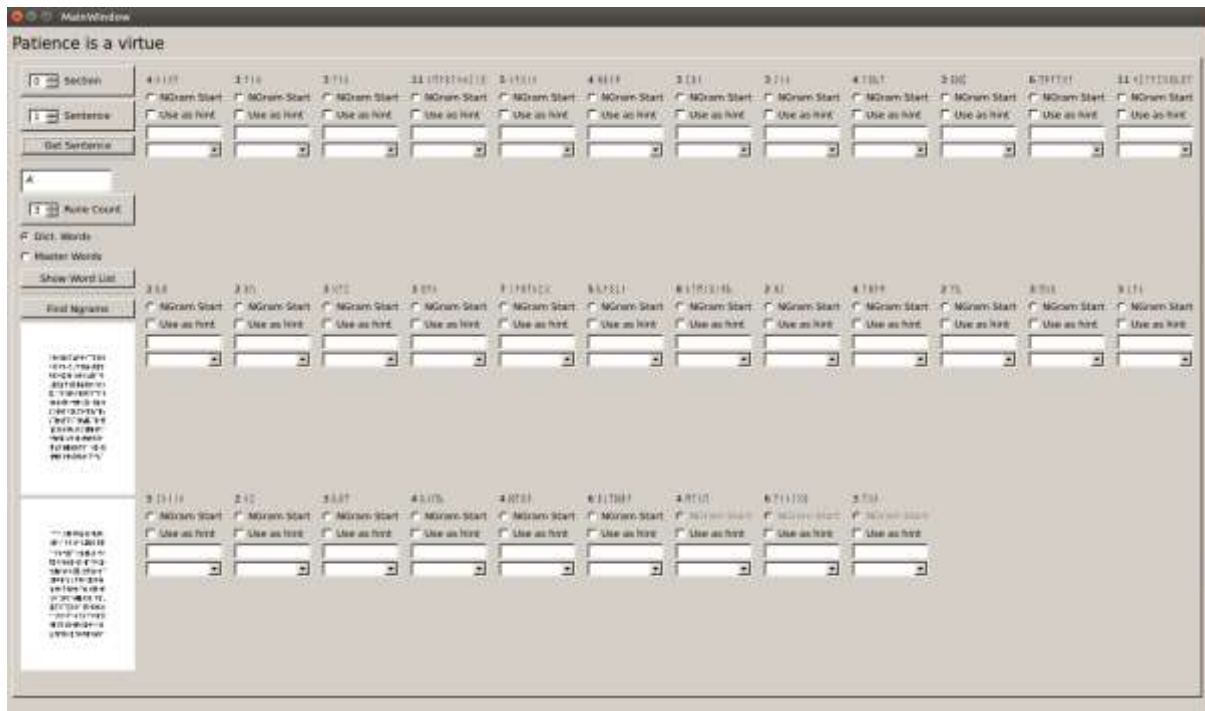
Known Issues: The Liber Primus sentences structure is basically correct, but without punctuation at the moment. Sentences with less than 4 words will result in undefined behaviour. Yeah, we know there's a lot of data, we'll keep working on that.

MORE HELP: <http://webchat.freenode.net/?channels=cicadasolvers>

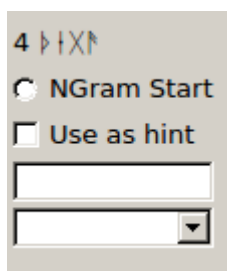
Hints and Tips: Hopefully you should see something like this:



Choose a section (by side images) and sentence (by 4-dots). Press “**Get Sentence**”. This should build the main display with a GUI_wordWidget for each word. The displayed image pages from the Liber Primus are not yet correct.



Example GUI_wordWidget



Each GUI_wordWidget has:

Top label, with word-rune-count and runes

Ngram Start radio-Button, select to make this word the start of the 4-gram being considered

Use as hint check box, select if you want to use the current Text Entry as a hint when looking up n-grams

Text Entry, your chosen word (or first letters of a word)

Unique Words, Combo box that is filled with unique words after an N-gram search

Choose an N-gram

We work in 4-grams, choose an Ngram Start radiobutton, this will activate the current and next 3 GUI_wordWidgets and deactivate the rest. The last 3 n-grams of the sentence should always be deactivated.

While searching, the search criteria will be displayed in the Top Left.

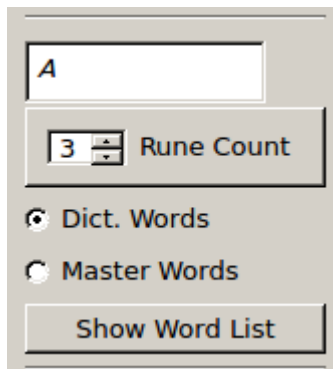
[illegible]

Once you've picked a word or two use them as hints and move on to a later ngram.

oneGram_Finder

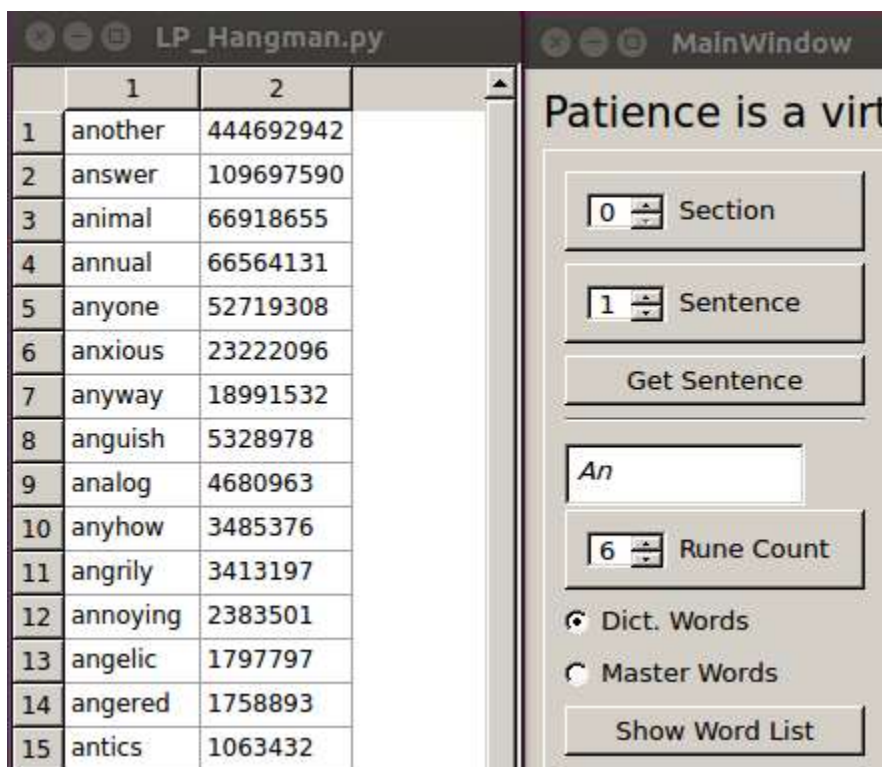
Not sure of what words you can choose? Try the oneGram_Finder, on the Left hand Panel. Choose your starting letters, word-rune-count, and press “*Show Word List*” to display a pop-up window of all matching words, with their count from the corpus.

Controls



A control panel for the oneGram_Finder. It features a text input field containing the letter 'A'. Below it is a spin button set to '3' with the label 'Rune Count'. There are two radio buttons: 'Dict. Words' (which is selected) and 'Master Words'. At the bottom is a button labeled 'Show Word List'.

Example 1-grams:



The screenshot shows two windows. The left window, titled 'LP_Hangman.py', displays a table of 1-grams. The right window, titled 'MainWindow', shows a sentence 'Patience is a virt' and a control panel similar to the one above, but with the 'Sentence' spin button set to '1' and the 'Rune Count' spin button set to '6'.

| | 1 | 2 |
|----|----------|-----------|
| 1 | another | 444692942 |
| 2 | answer | 109697590 |
| 3 | animal | 66918655 |
| 4 | annual | 66564131 |
| 5 | anyone | 52719308 |
| 6 | anxious | 23222096 |
| 7 | anyway | 18991532 |
| 8 | anguish | 5328978 |
| 9 | analog | 4680963 |
| 10 | anyhow | 3485376 |
| 11 | angrily | 3413197 |
| 12 | annoying | 2383501 |
| 13 | angelic | 1797797 |
| 14 | angered | 1758893 |
| 15 | antics | 1063432 |

Master Words or Dict. Words ?

This radiobutton limits the searches to common words from the master list, or uses all words found in a typical dictionary.