**Portable Accessories for Corpus Search 2 (PACS)**

Readme

Note: As packaged, PACS will work only on macos arm64. To determine if your Mac has this architecture, open Terminal and enter uname -m. It will display either arm64 or x64.

1. **Prerequisites**
   1. CorpusSearch2 (CS2) <https://corpussearch.sourceforge.net/CS.html>
      1. CS2 requires Java.
2. **Getting Started**
   1. **Copying the Files**
      1. Copy the PACS folder onto your local machine.
      2. Copy the files of the corpus you wish to search into the corpus folder inside the PACS folder.
      3. Open the file search in TextEdit. Locate this line and change .txt at the end to match the file types of your corpus (likely either .txt or .psd):

java -classpath /Applications/CS\_2.003.04.jar csearch/CorpusSearch cs.q \*.txt

* 1. **Create an Automator .app** (Read step viii first!)
     1. Open Automator. (You can do this from Launchpad by typing “Automator”. Its icon appears to be a robot holding a pipe.)
     2. Under “Choose a type for your document”, select “Application”.
     3. In the long list in the second column, find “Run Shell Script”.
     4. Click-and-drag “Run Shell Script” into the grey area that contains the text “Drag actions or files here to build your workflow”.
     5. In the newly-created “Run Shell Script” box, change the Shell from /bin/zsh to /bin/bash.
     6. Replace cat with open -a Terminal followed by the file path of your copied PACS folder and finally PACS. For example, on my computer it is: open -a Terminal Documents/Utilities/PACS/PACS
     7. Save (or Export) the workflow, for example as PACS.app in the PACS folder.
     8. As an alternative to steps ii-vii, you can open the existing PACS.app in Automator and edit the file path for your local PACS folder.
     9. Note: You can change the PACS.app icon. Copy the picture that you wish to use, such as the provided icon.png. Then right-click on PACS.app, click on “Get Info”, click on the image in the top-left corner, and paste.

1. **Running PACS**
   1. Double-click PACS.app. This should launch PACS in Google Chrome. If it does not, or if you wish to use a different browser, go to localhost:3001 in the browser.
   2. The interface looks like this:

**A white background with black text

AI-generated content may be incorrect.**

* 1. Enter your CorpusSearch2 query in the top-right box.
     1. For example, if you wish to find every instance of a noun phrase inside a noun phrase inside a noun phrase, you can use this query:

query: ([1]NP\* idoms [2]NP\*) AND ([2]NP\* idoms [3]NP\*)

* + 1. If you wish to have your results color-coded, include numbers in curly brackets, e.g. {1}. Note that curly brackets precede square brackets, hence the reminder in the default text.

query: ({1}[1]NP\* idoms {2}[2]NP\*) AND ([2]NP\* idoms

{3}[3]NP\*)

* 1. Click “Search”. Once the search is complete, the results will display in the large box.
  2. The “Download” button will save the results in your PACS folder.
  3. If you want to copy a sentence from the results, first copy it into the middle box. Click the appropriate “Show” button. (Icepac lemmatizes with “-”; Ipchg lemmatizes with “=”.) This creates a copy-able version of the sentence in the lower-right box.

1. **Closing PACS**
   1. Click on “Exit”.