

Pinaker, v0.15 beta

Disclaimer: This software is provided as is, with no express or implied warranties. For all intents and purposes, I just put a bunch of bytes in some server, so I'm not responsible if anything goes wrong. If fact, I'd be surprised if it doesn't.

Acknowledgements:

Thanks to Lukas Gebauer for the Ararat Synapse source code, included in the synapse folder (of the source code).

Thanks to Johann C. Rocholl for the descriptions of barcode identification algorithms on his dissertation on "Robust 1D Barcode Recognition on Mobile Devices".

Quickstart:

You need an access key to ISBNdb (<http://isbndb.com/>). If you don't have one, create a free account with ISBNdb to obtain an access key.

Photograph your book barcodes. The images should have around 3M pixels (2048x1536), with the barcode centered and occupying one third of the width of the image. Note: barcode identification is a bit picky, so focus properly and orient the bars vertically in the image.

Copy the .jpg files to a folder, copy the folder path to the image folder text box.

Click the "Process images" button to find the EAN-13 numbers.

Incorrect numbers are shown on the top listbox. Select the first one, type the correct EAN-13 number in the text box and press enter. The EAN-13 number is the set of 13 digits under the bars.

To retrieve book data from ISBNdb, copy your access key to the access key text box and press the retrieve button. Note that access to ISBNdb records is limited by the server, so don't process too many at one time. This will download an .xml file for each EAN-13 number into the folder given for the images. Existing XML files will not be requested from the server unless the option to skip them is unchecked.

The "Compile CSV" button builds a tab-separated table from all the xml files, with title, long title, authors and publisher information.

Hints.

You can put a pinakerdata.txt file in the configuration folder to automatically fill in folder and access key data when you run Pinaker. The first line must be the folder path and the second line the access key (with no trailing spaces or other characters).

In Windows the configuration folder is the folder where the executable was placed. In Linux it is the .config folder in your home folder.

In Linux the file names are case-sensitive. If the .jpg extension for your image files are in lowercase then uncheck the ".JPG (uppercase)" checkbox. For Windows users this does not matter.

Source

The source code can be found here in Github

<https://github.com/lkrippahl/Pinaker>

Builds for Windows and Ubuntu are on my software page:

<http://centria.fct.unl.pt/~ludi/software.html>

Ludwig Krippahl, 2011. No copy rights reserved. This work is dedicated to the public domain.

(For licensing and copyrights on the Synapse library, check the source files in the synapse folder.)