

addbooktool

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I wrote a syntax specification and the following Python application for validating data in an external contact information database and exporting to various formats. The application has a command line interface and a graphical interface, both interfaces cover the same functionality.

Excerpt from the README

This utility reads an Addbook (AB4D) database and provides the following functionality:

- Validates the Names table against syntax.md
- Provides a list of names lacking directions/coordinates
- Exports contacts to CSV, vCard, and gpsbabel formats

Input is an Addbook (AB4D) database file.

Example command, using gpsbabel for one of its supported output formats, is something like this:

```
python3 addbooktool export Addbook.AB4D | \  
gpsbabel -i unicsv -f -- -o garmin_gpi,category="Addbook" -F \  
gpsbabel_out.gpi
```

Usage

```
$ addbooktool -h  
usage: [-h] [-p PASSWORD] [-V] {validate,export} ... input
```

This is a utility for working with Addbook data.

positional arguments:

{validate,export}	
validate	validate fields in names table
export	export contacts
input	Source AB4D file

optional arguments:

-h, --help	show this help message and exit
-p PASSWORD, --password PASSWORD	provide password for AB4D database file (only required on Windows)
-V, --version	show program's version number and exit

For subcommand usage information, run eg. 'addbooktool validate -h'.

```
$ addbooktool validate -h
usage: validate [-h] [-d] [-c] [-a]
```

The validate command returns a list of the records which have invalid syntax. Use the optional arguments to relax or restrict the validation.

optional arguments:

- h, --help show this help message and exit
- d, --directions require entries to include directions
- c, --coordinates require entries to include coordinates
- a, --full-addr require entries to have full addresses (rather than just city/state)

```
$ addbooktool export -h
usage: export [-h] [-f {gcsv,gpi,gpx,vcard_dir,vcard_file}]
        [-o OUTPUT]
```

The export command returns the records in the specified format.

optional arguments:

- h, --help show this help message and exit
- f {gcsv,gpi,gpx,vcard_dir,vcard_file}, --format {gcsv,gpi,gpx,vcard_dir,vcard_file} output format, one of: GPSBabel unicsv, GPI, GPX, vCard folder, vCard file
- o OUTPUT, --output OUTPUT output file or directory, depending on selected format (The default output location for single-file formats is stdout, including for binary formats. The default output location for multiple-file formats is the current directory. If the selected directory is not empty, a temporary directory will be created.)