TagTool Documentation

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1 Overview

Description   TagTool is a program designed to preform searches on a custom filename based tagging system. The po

Files   In order to utilize this program any applicable files must be named with the following format: "[Tag_1]...[Tag_n]name.ext" in order to be processed. Special characters inside tag brackets, such as spaces, are valid.

2 Usage

Options

- -f <directory>:
  Sets the directory to preform search/list on. Defaults to present working directory.

- -l:
  Lists all searchable tags within the directory.

- -s <name|date|time>:
  Sorts matches by the desired criteria. name: Ascending alphanumeric filename. date: Ascending creation date. time: Ascending video runtime. Defaults to search by name.

- -r:
  Reverse search results.

Searching   Search queries support full boolean search with the additional search parameters of date of creation and, if the file is a video, length of video. Search operations may be chained and grouped to create a more percise search.

Executing Match   After running a valid search, any matches found may be opened by its default program by entering the index number of the desired match.

Fomatting

- Filename: To create a file capable of being searched for all applicable tags must be put in the filename, each surrounded by brackets.

  Example File: [tag_a][tag_b]...[tag_z]filename.ext

- Date: To search for a date range, input the full year, month, and day, with no characters inbetween. Place the '>' character to search for maximum.

  Minimum Date: YYYYMMDD
  Maximum Date: >YYYYMMDD
  Date Range: YYYYMMDD>YYYY-MM-DD

- Time: To search for a time range, input the hours, minutes, and seconds, with colons. Place the '>' character to search for maximum.

  Minimum Time: H...H:MM:SS
  Maximum Time: >H...H:MM:SS
  Time Range: H...H:MM:SS>H...H:MM:SS

3   Examples

List Tags   All tags present within a folder can be listed with the -l option.

- TagTool -fl folder

And Operation The and operation matches all files with the specified tags.

- TagTool -f folder "tag_a and tag_b"
- TagTool -f folder "tag_a & tag_b"
- TagTool -f folder "tag_a tag_b"

Or Operation The or operation matches all files with either of the specifed tags.

- TagTool -f folder "tag_a or tag_b"
- TagTool -f folder "tag_a | tag_b"

Exclude Operation The exclude operation matches all files without the specifed tags.

- TagTool -f folder "tag_a not tag_b"
- TagTool -f folder "tag_a -tag_b"

Date Operation The date operation will match all file within the specifed date range.

- TagTool -f folder "date 19700101"
- TagTool -f folder "@ 19700101"
- TagTool -f folder "date >20380119"
- TagTool -f folder "date 19700101>20380119"

Time Operation The time operation matches all files within the specified time range.

- TagTool -f folder "time 00:00:59"
- TagTool -f folder "# 00:00:59"
- TagTool -f folder"time >01:00:00"
- TagTool -f folder time 00:00:59>01:00:00"

Groupings   Search operations may be grouped together to further filter matches.

- TagTool -f folder "tag_a (tag_b tag_c)"

Complex Queries   All search operations can be used together to limit matches by a very specific criteria.

- Tagtool -f folder "tag_a -tag_b &(tag_c | #00:30:00) @ 20000101>20200101"

4   Errors

Exit Code 1: No arguments specified. At a minimum the program must be run with either the -l option or a search query.

Exit Code 2: -f option may not be specified more than once.

Exit Code 3: Invalid option entered. Valid options include: -f, -l, -s.

Exit Code 4: Cannot access folder. Either the directory does not exit, or required permissions are not met.

Exit Code 5: Format for date query is invalid. Valid format: YYYYM-MDD>YYYYMMDD

Exit Code 6: Format for time query is invalid. Valid format: H...H:MM:SS>H...H:MM:SS

Exit Code 7: Format for tags in filename is invalid. Valid format: [tag_1][tag_2]...[tag_n]filename

Exit Code 8: Format for search query is invalid. See Usage(Searching) for help.

Exit Code 9: Format for grouped query is invalid. See Usage(Searching)

5   Known Bugs

- Undefined behavior if -f flag is exculded.

- Creation date of a file may be incorrect, cause unknown.

6 Needs Implementation

- Sort matches by user defined criteria.

- Execute match from list via default action.

- Add option to execute generate folder script

- Create a script to sort tags within a filename and append numeration on both files if conflict occurs.